FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/2.8	4.5 in. x 4.5 in.	Fairchild Space & Defense Systems, El Segundo

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	25												

FILM 8401 TARGET CONTRAST 1000:1 FILTER W-12

RADIAL	80	85	84	82	76	70												
TANGENTIAL	80	80	74	59	57	45												

AWAR 70 L/mm

FILM 3400 TARGET CONTRAST 1000:1 FILTER W-12

RADIAL	143	151	140	146	150	109												
TANGENTIAL	143	150	138	112	84	63												

AWAR 124 L/mm

FILM 3404 TARGET CONTRAST 1000:1 FILTER W-12

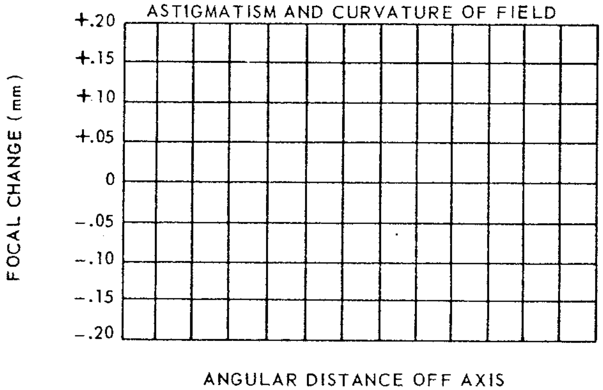
RADIAL	254	284	316	276	238	184												
TANGENTIAL	254	284	246	165	108	83												

AWAR 211 L/mm

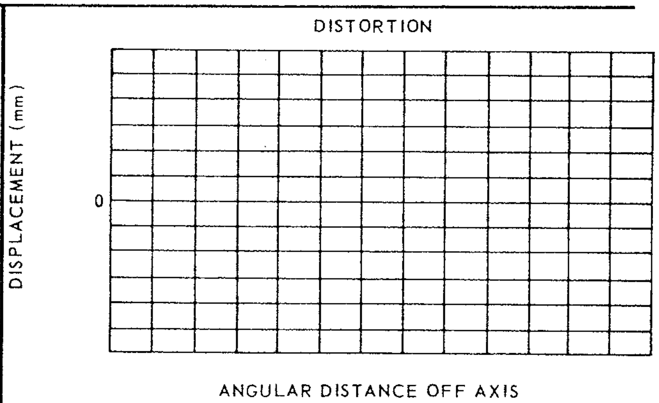
VISUAL ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

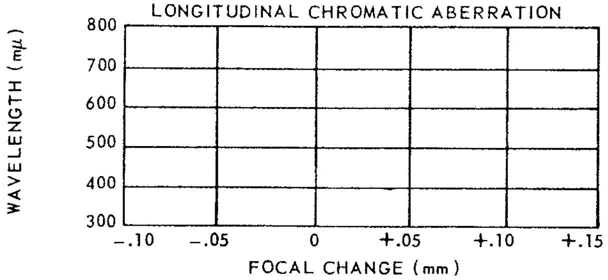
ASTIGMATISM AND CURVATURE OF FIELD



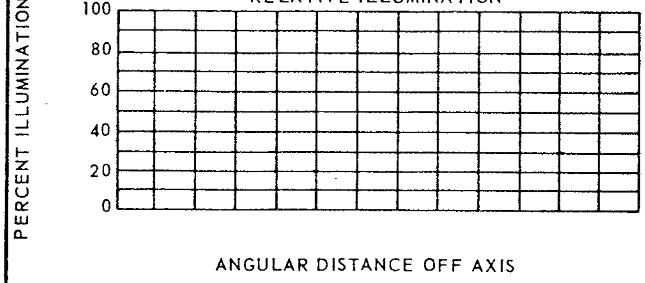
DISTORTION



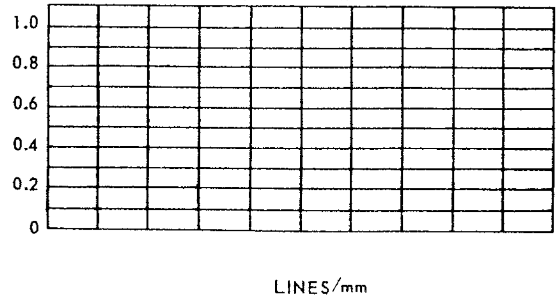
LONGITUDINAL CHROMATIC ABERRATION



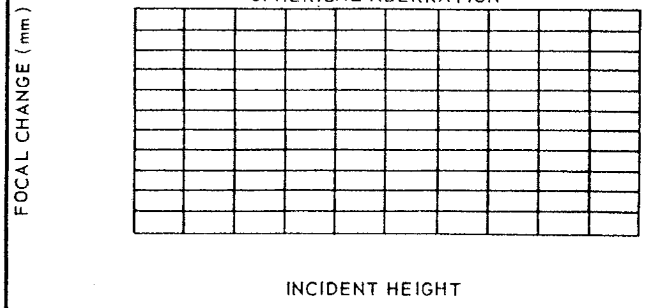
RELATIVE ILLUMINATION



FREQUENCY RESPONSE



SPHERICAL ABERRATION



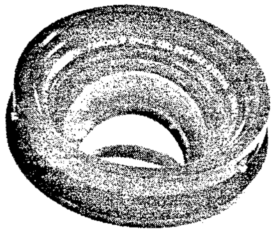
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

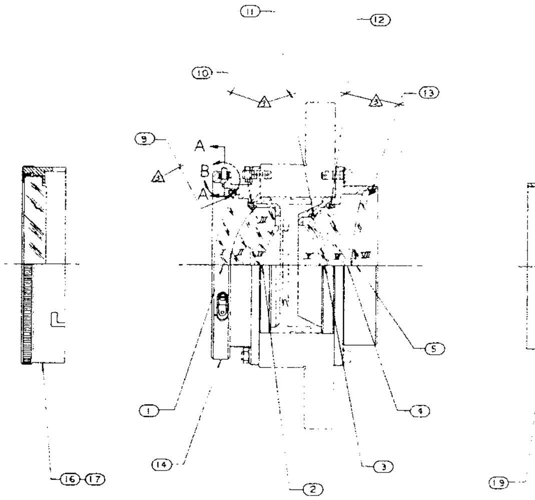
TYPE (MIL–STD–150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 4.5 in. x .5 in. slit	MANUFACTURER Fairchild Space & Defense Systems, El Segundo

STOCK NO. Fairchild P/N 12515-AA	SPECIFICATION NO.	STATUS Production

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 3.980 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 7.19 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 3.05 in.	LENS CELL DIAMETER *(Maximum)* 7.25 in.
SEMI–FIELD ANGLE 25°	OVERALL LENGTH 4.15 in.
RELATIVE APERTURE f/2.8	WEIGHT 2 lb 9 oz

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/2.8	4.5 in. x .5 in. slit	Fairchild Space & Defense Systems, El Segundo

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0		5		10		15		20		25							

FILM 4401 TARGET CONTRAST 1000:1 FILTER W-12

RADIAL	64		64		60		46		51		26							
TANGENTIAL	64		64		62		50		43		23							

AWAR 48 L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR ____ L/mm

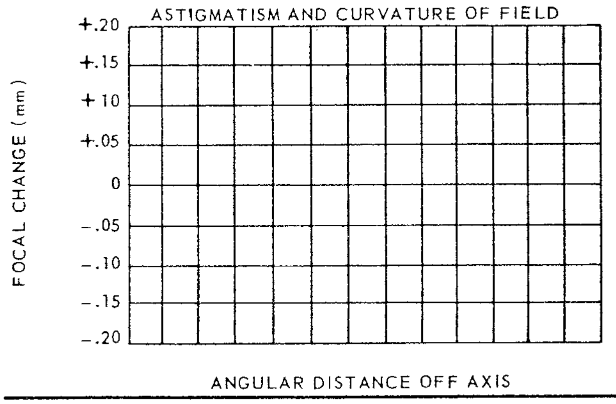
FILM ____ TARGET CONTRAST ____ FILTER ____

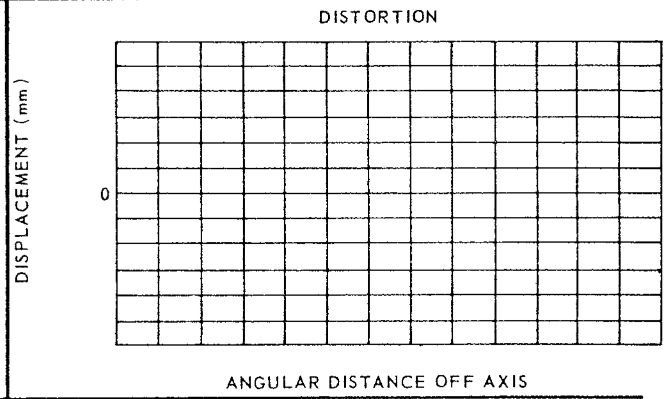
RADIAL																		
TANGENTIAL																		

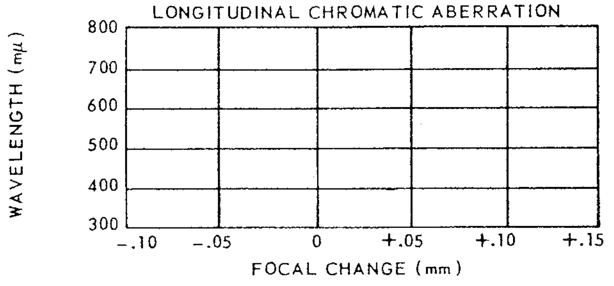
AWAR ____ L/mm

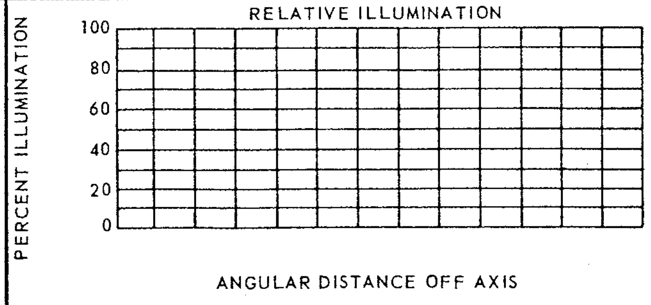
VISUAL ____ TARGET CONTRAST ____ FILTER ____

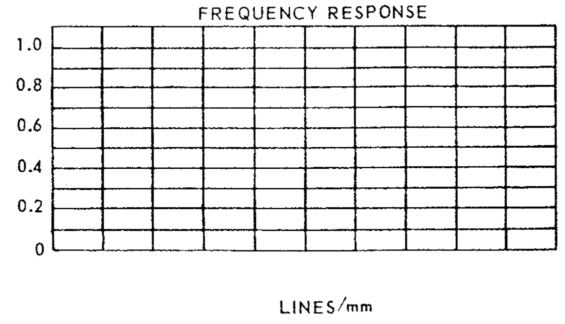
RADIAL																		
TANGENTIAL																		

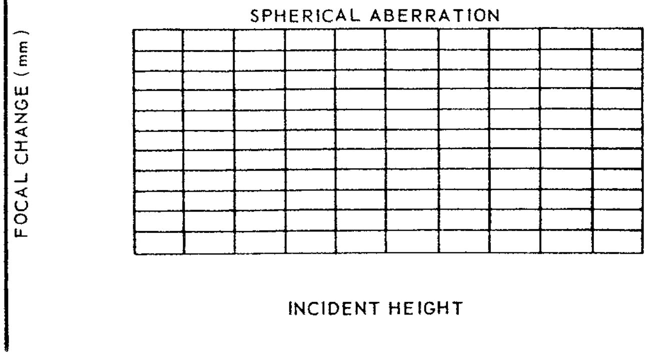












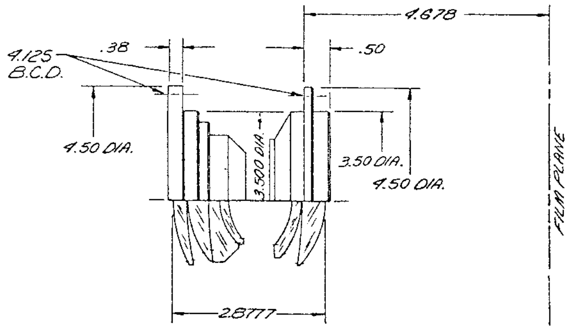
LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaisance	NAME Paxar (A)

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Pacific Optical Corp.

STOCK NO. Pacific Optical P/N 34200	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)	TRANSMITTANCE 83%
BACK FOCAL DISTANCE 4.3 in.	COLOR CORRECTION 5461-6563 Å
FRONT VERTEX BACK FOCAL DISTANCE 7.05 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 4.678 in.	LENS CELL DIAMETER *(Maximum)* 3.5 in.
SEMI-FIELD ANGLE 25°	OVERALL LENGTH 2.877 in.
RELATIVE APERTURE f/2.8	WEIGHT

REMARKS:

Used on the following aircraft cameras: KA-30, KA-45A, KA-46A, KA-51

See also Paxar (B) 6 in. f/2.8 4.5 in x 4.5 in., Pacific Optical Corp.

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/2.8	4.5 in. x 4.5 in.	Pacific Optical Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	25												

FILM Pan X TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR 48 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

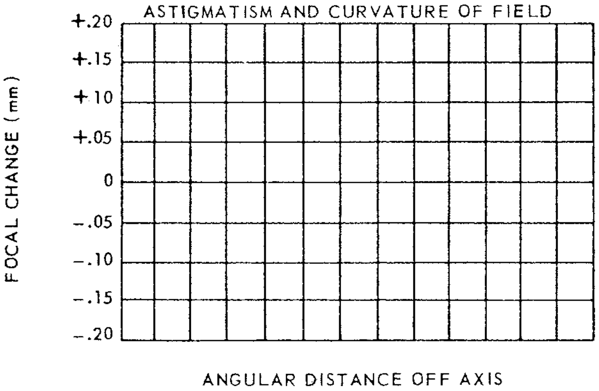
FILM ______ TARGET CONTRAST ______ FILTER ______

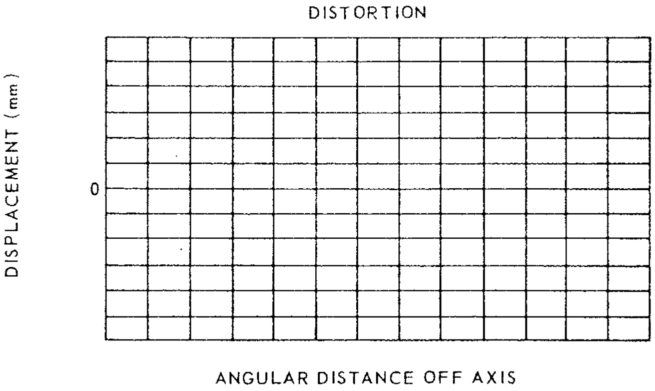
RADIAL																		
TANGENTIAL																		

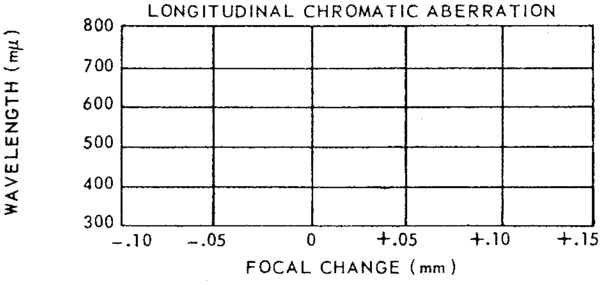
AWAR ______ L/mm

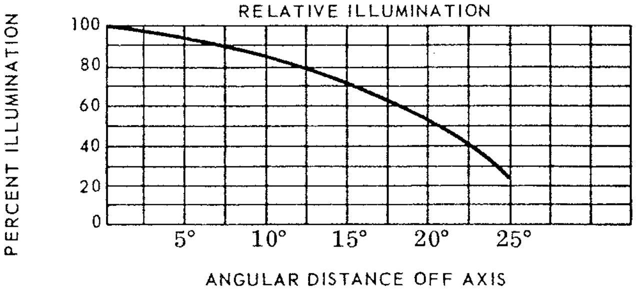
VISUAL ______ TARGET CONTRAST ______ FILTER ______

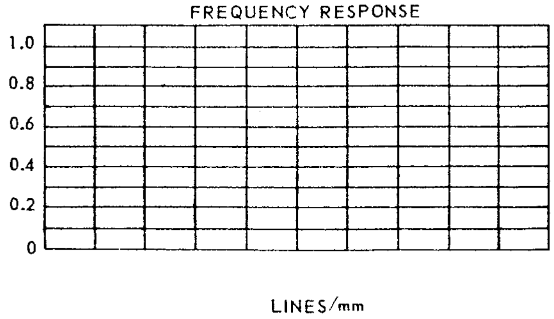
RADIAL																		
TANGENTIAL																		

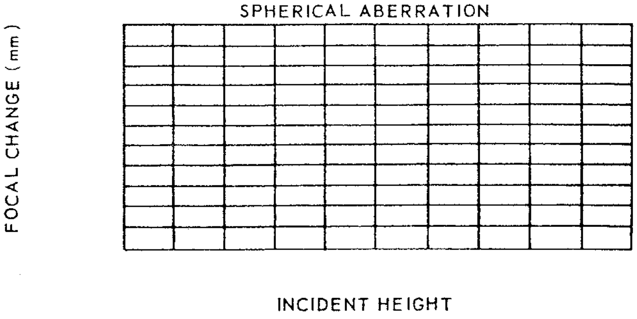










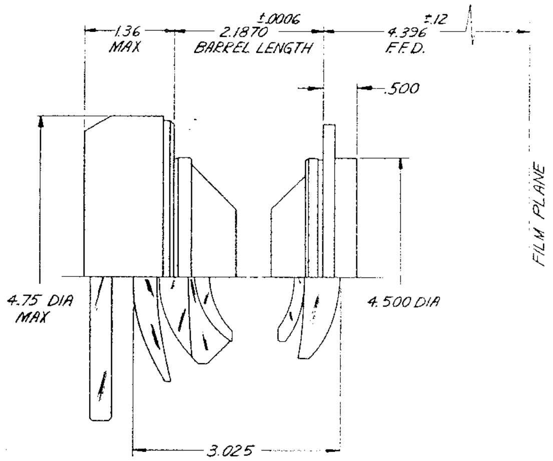


LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Paxar (B)	
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Pacific Optical Corp.

STOCK NO. Pacific Optical P/N 32385	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 6 in. (152 mm)	TRANSMITTANCE 78%
BACK FOCAL DISTANCE 4.143 in.	COLOR CORRECTION 5461-6563 Å
FRONT VERTEX BACK FOCAL DISTANCE 7.168 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 4.396 in.	LENS CELL DIAMETER *(Maximum)* 3.5 in.
SEMI-FIELD ANGLE 25°	OVERALL LENGTH 4.047 in.
RELATIVE APERTURE f/2.8	WEIGHT 2 lbs. 7 oz.

REMARKS:

Used on the following aircraft cameras: KA-30, CA-115, KA-45A, KA-46A, KA-51A, CA-101, KS-87A

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/2.8	4.5 in. x 4.5 in.	Pacific Optical Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	25												

FILM Super XX TARGET CONTRAST High FILTER

RADIAL	31	33	32	32	34	25												
TANGENTIAL	31	40	48	37	31	23												

AWAR 34 L/mm

FILM Plus X TARGET CONTRAST High FILTER

RADIAL	31	35	32	37	42	24												
TANGENTIAL	31	47	54	42	42	22												

AWAR 38 L/mm

FILM Pan X TARGET CONTRAST High FILTER

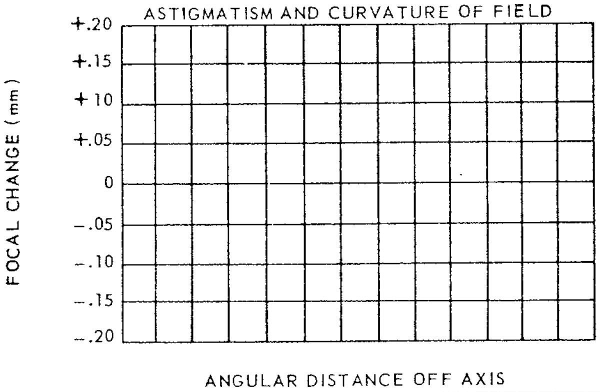
RADIAL	31	40	33	34	50	32												
TANGENTIAL	31	52	65	55	63	28												

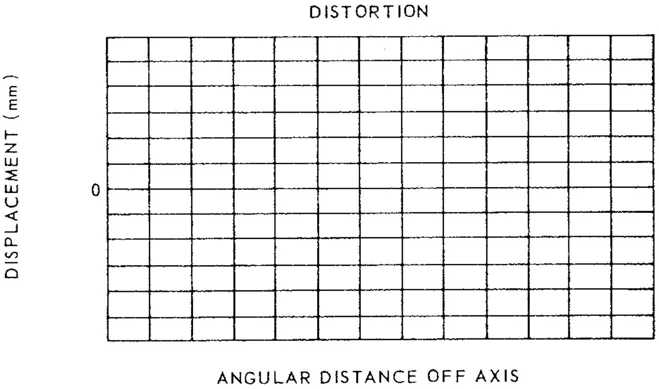
AWAR 47 L/mm

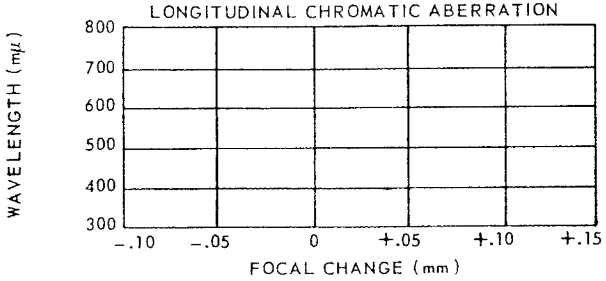
Film SO 213 TARGET CONTRAST High FILTER

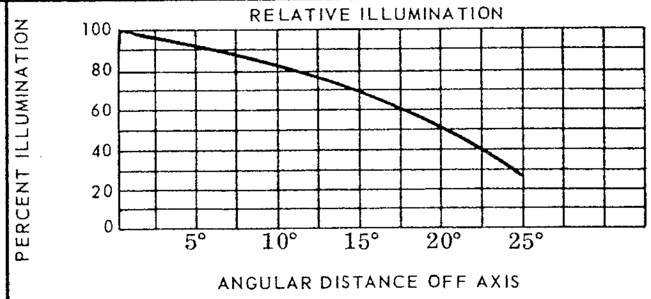
RADIAL	79	60	36	48	64	43												
TANGENTIAL	79	60	73	58	70	41												

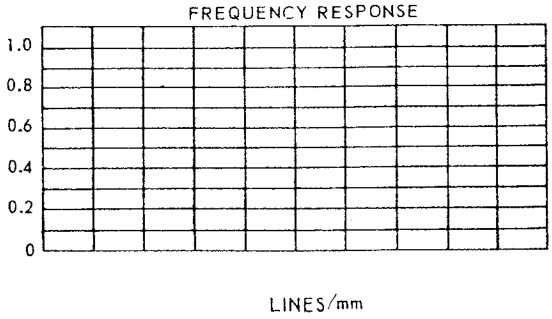
AWAR 56 L/mm

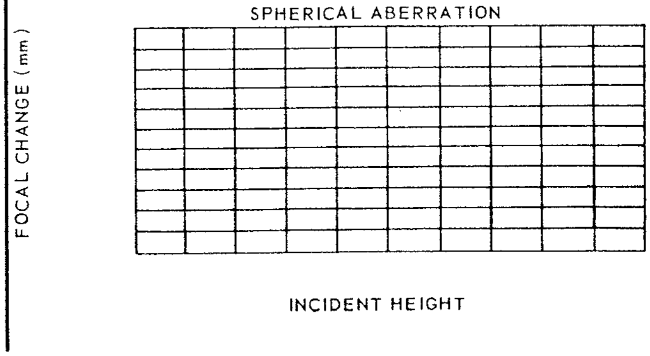

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

LENS DATA INFORMATION SHEET

(Reference MIL–STD–150A for definition of terms and methods of measurement)

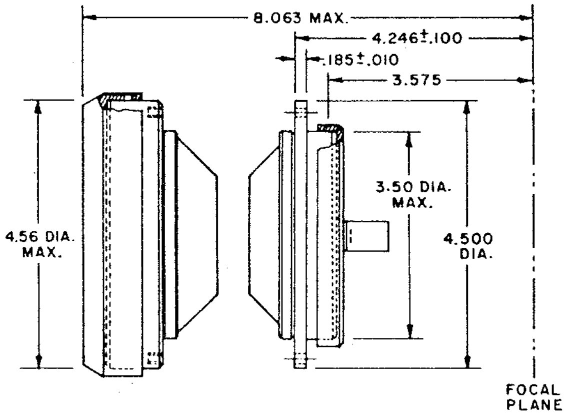
DATE
15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME RECON 220

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS Current

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)	TRANSMITTANCE 78%
BACK FOCAL DISTANCE 3.58 in. (90.8 mm)	COLOR CORRECTION 5461-6563 Å (minus blue)
FRONT VERTEX BACK FOCAL DISTANCE 7.32 in. (185.9 mm)	DISTORTION *(Maximum)* 100 microns
FLANGE FOCAL DISTANCE 4.246 in.	LENS CELL DIAMETER *(Maximum)* 4.56 in. (116 mm)
SEMI-FIELD ANGLE 28°	OVERALL LENGTH 4.29 in. (109 mm)
RELATIVE APERTURE f/2.8	WEIGHT 2.5 lbs.

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/2. 8	4.5 in. x 4.5 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	25												

FILM Plus X 8401 TARGET CONTRAST 1000:1 FILTER W 12

RADIAL																		
TANGENTIAL																		

AWAR 53 L/mm

FILM Pan X 3400 TARGET CONTRAST 1000:1 FILTER W 12

RADIAL																		
TANGENTIAL																		

AWAR 83 L/mm

FILM Pan X 3400 TARGET CONTRAST 2:1 FILTER W 12

RADIAL																		
TANGENTIAL																		

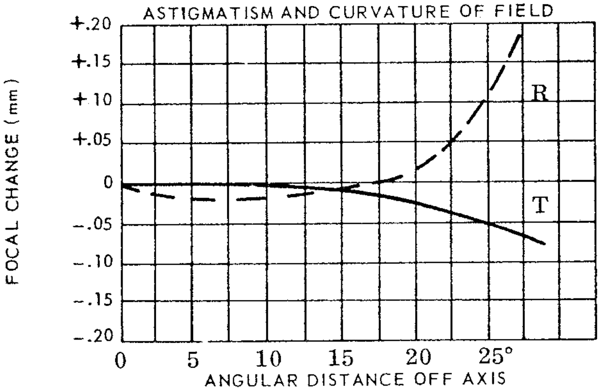
AWAR 49 L/mm

FILM SO-243 TARGET CONTRAST 1000:1 FILTER

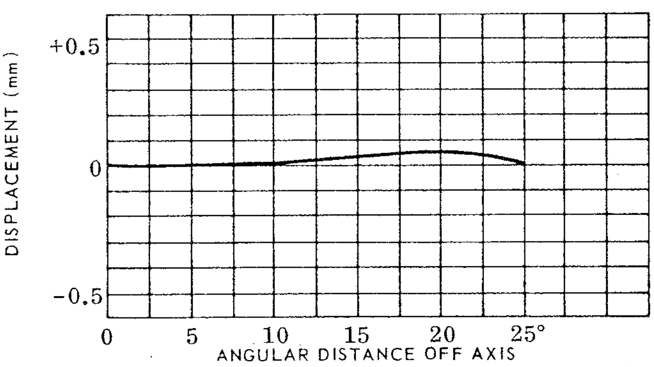
RADIAL																		
TANGENTIAL																		

AWAR 142 L/mm

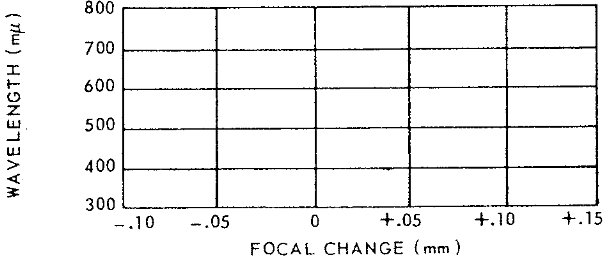
ASTIGMATISM AND CURVATURE OF FIELD



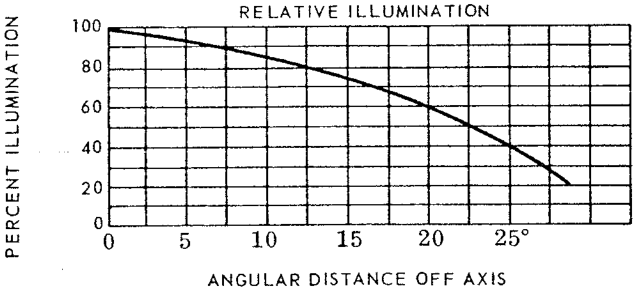
DISTORTION



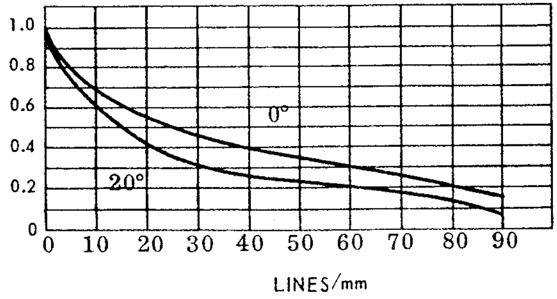
LONGITUDINAL CHROMATIC ABERRATION



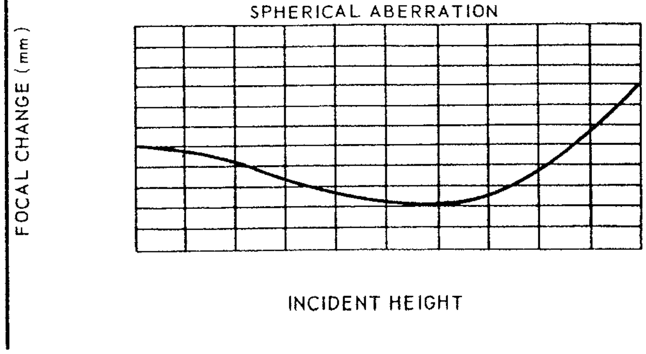
RELATIVE ILLUMINATION



FREQUENCY RESPONSE



SPHERICAL ABERRATION



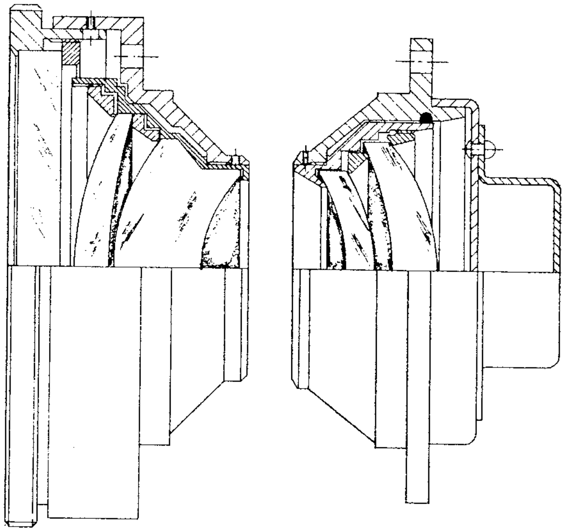
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Viewlar

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Viewlex, Inc.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 4.26 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 7.22 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 4.5 in.	LENS CELL DIAMETER *(Maximum)* 4.31 in.
SEMI-FIELD ANGLE 25°	OVERALL LENGTH 3.5 in.
RELATIVE APERTURE f/2.8	WEIGHT 2 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/2.8	4.5 in. x 4.5 in.	Viewlex, Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)																		

FILM Panchromatic Aerial TARGET CONTRAST High FILTER

RADIAL																		
TANGENTIAL																		

AWAR 40 L/mm

FILM TARGET CONTRAST FILTER

RADIAL																		
TANGENTIAL																		

AWAR L/mm

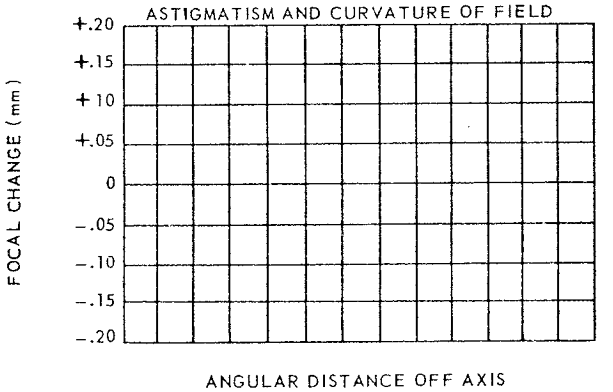
FILM TARGET CONTRAST FILTER

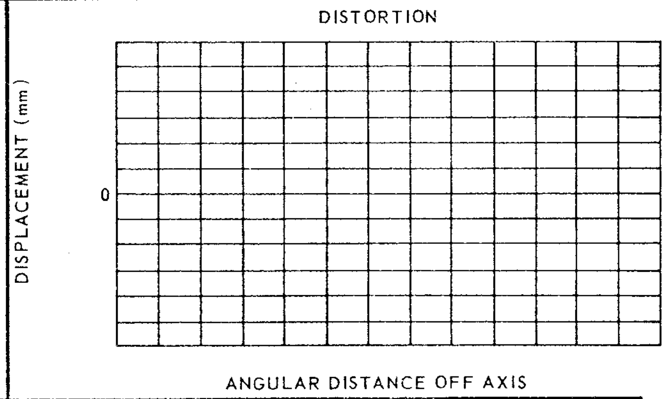
RADIAL																		
TANGENTIAL																		

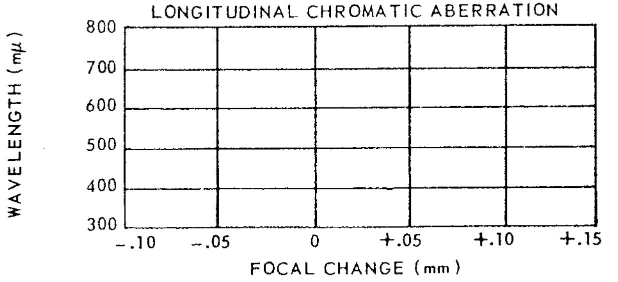
AWAR L/mm

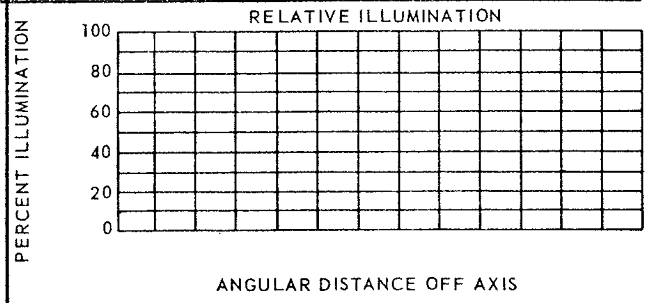
VISUAL TARGET CONTRAST FILTER

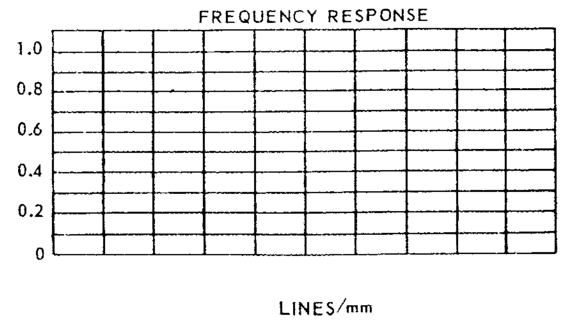
RADIAL																		
TANGENTIAL																		

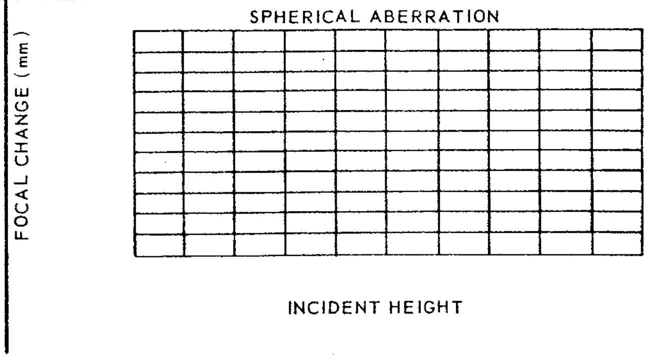










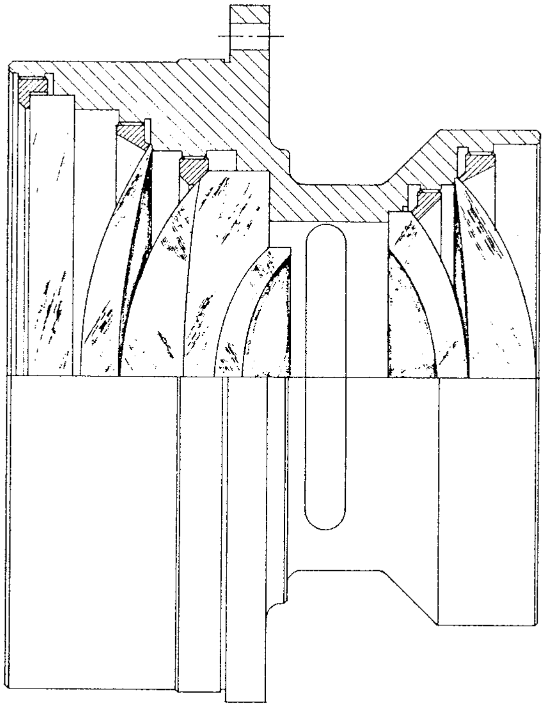


LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME	
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/3.8	FORMAT 4.5 in. x .5 in. slit	MANUFACTURER Fairchild Space & Defense Systems, El Segundo

STOCK NO. Fairchild P/N 108-100	SPECIFICATION NO.	STATUS Production

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 4.2906 in.	COLOR CORRECTION Wratten 12
FRONT VERTEX BACK FOCAL DISTANCE 7.1644 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 5.9696 in.	LENS CELL DIAMETER *(Maximum)* 4.687 in.
SEMI-FIELD ANGLE 35°	OVERALL LENGTH 3.399 in.
RELATIVE APERTURE f/3.8	WEIGHT

REMARKS:

Used on the following aircraft cameras: KA-77

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/3.8	4.5 in. x .5 in. slit	Fairchild Space & Defense Systems, El Segundo

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0		10		20		30	35										

FILM 8401 TARGET CONTRAST High FILTER

RADIAL	90		88		84		53	37										
TANGENTIAL	90		87		68		22	15										

AWAR ______ L/mm

FILM SO 206 TARGET CONTRAST High FILTER

RADIAL	180		190		151		110	78										
TANGENTIAL	180		138		113		36	21										

AWAR ______ L/mm

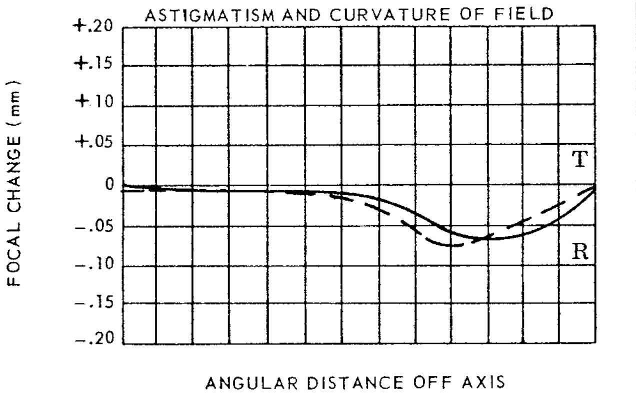
FILM ______ TARGET CONTRAST ______ FILTER ______

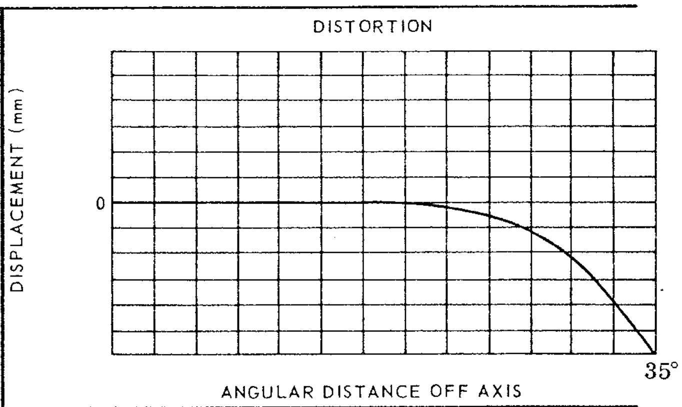
RADIAL																		
TANGENTIAL																		

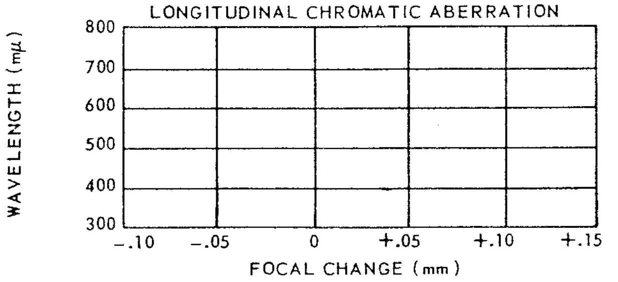
AWAR ______ L/mm

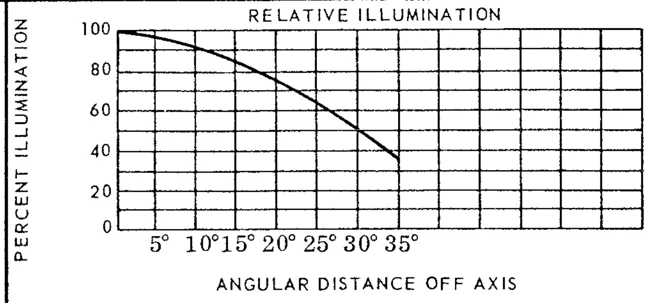
VISUAL ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		


ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION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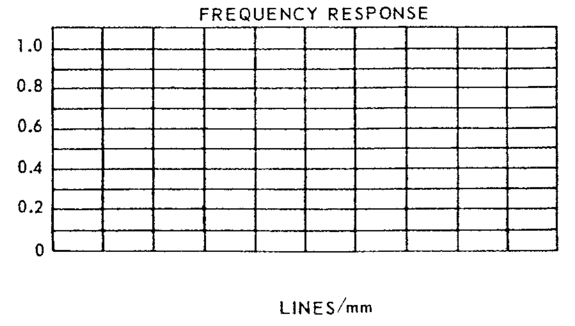
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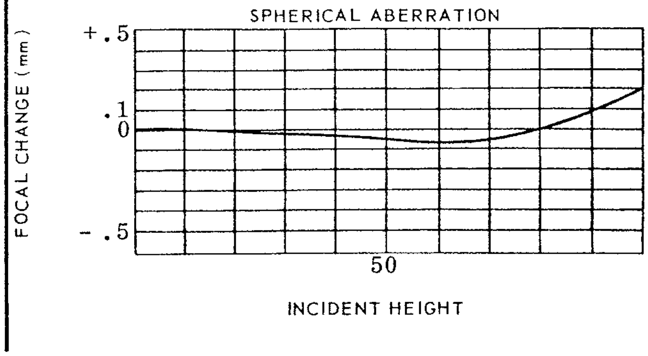

SPHERICAL ABERRATION

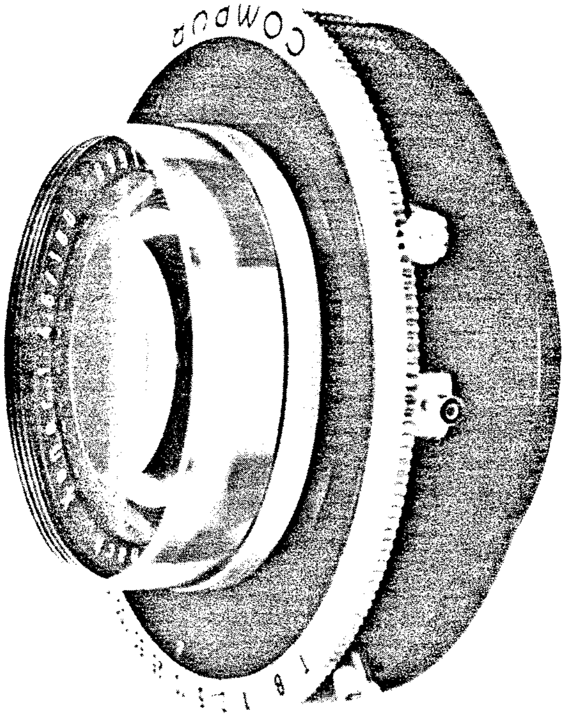
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

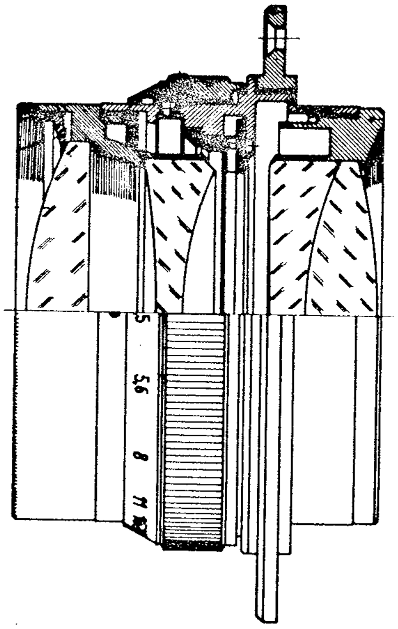
TYPE (MIL–STD–150A) Type I Aerial Reconnaissance	NAME Xenar

FOCAL LENGTH 7 in.	RELATIVE APERTURE f/4.5	FORMAT 4.5 in. x 4.5 in. (100 mm x 150 mm)	MANUFACTURER Jos. Schneider & Co.

STOCK NO. Schneider P/N XR 45180 - 009	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 7.1 in. (181 mm)	TRANSMITTANCE 3660 4050 4360 5440 6730 Å 59 79 85 91 89 %
BACK FOCAL DISTANCE 6.3 in. (159.4 mm)	COLOR CORRECTION 4360-6440Å
FRONT VERTEX BACK FOCAL DISTANCE 8 in. (202.2 mm)	DISTORTION *(Maximum)* -0.21%
FLANGE FOCAL DISTANCE 7 in. (174 mm)	LENS CELL DIAMETER *(Maximum)* 2 in. (59 mm)
SEMI-FIELD ANGLE 26.5°	OVERALL LENGTH 1.7 in. (43.8 mm)
RELATIVE APERTURE f/4.5	WEIGHT .82 lbs (385 g)

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
7 in.	f/4.5	4.5 in. x 4.5 in. (100 mm x 150 mm)	Jos. Schneider & Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	4	8	12	16	20	24											

FILM Pan (175 Lin/mm) TARGET CONTRAST High FILTER ____

RADIAL	59	56	42	20	17	22	25											
TANGENTIAL	59	56	31	22	20	19	19											

AWAR ____ L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR ____ L/mm

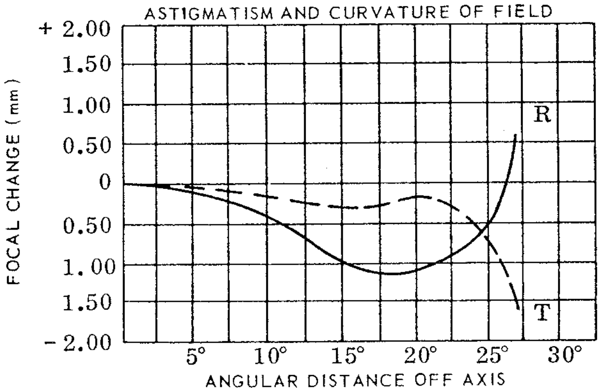
FILM ____ TARGET CONTRAST ____ FILTER ____

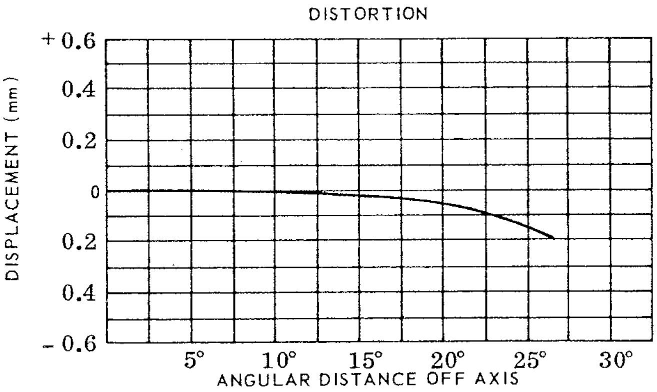
RADIAL																		
TANGENTIAL																		

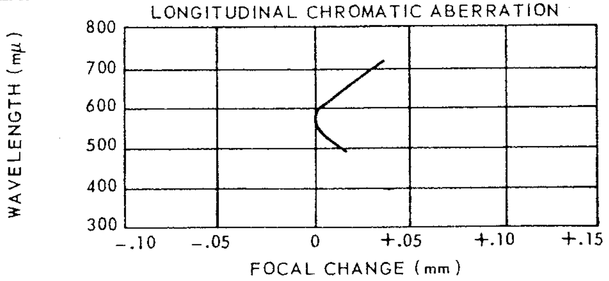
AWAR ____ L/mm

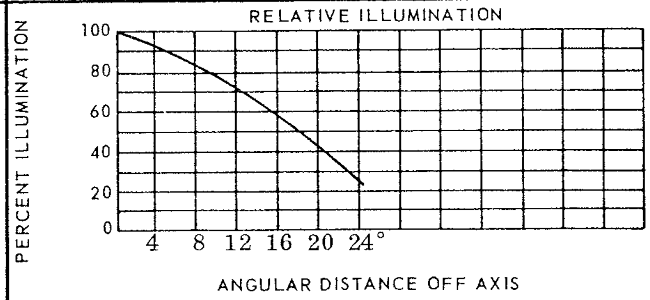
VISUAL ____ TARGET CONTRAST ____ FILTER ____

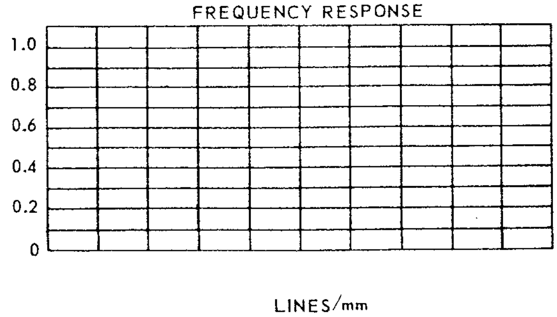
RADIAL																		
TANGENTIAL																		

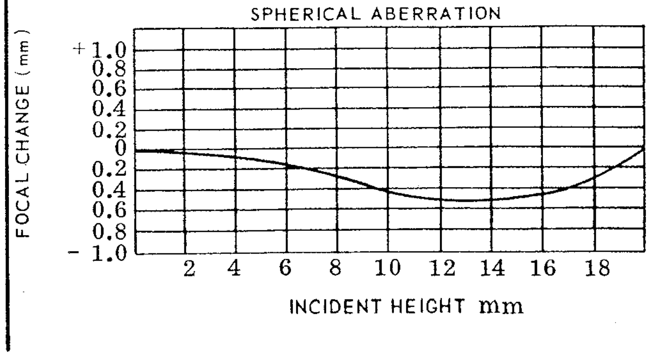

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

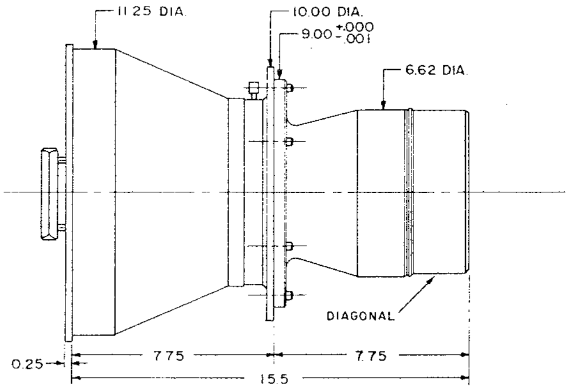
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL–STD–150A) Type I Aerial Reconnaissance	NAME RECON 650

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/1.5	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS Current

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (304.8 mm)	TRANSMITTANCE 75%
BACK FOCAL DISTANCE 1.18 in. (30 mm)	COLOR CORRECTION 7000-9000 Å
FRONT VERTEX BACK FOCAL DISTANCE 16.18 in. (411 mm)	DISTORTION *(Maximum)* 100 microns
FLANGE FOCAL DISTANCE 8.93 in. (226 mm)	LENS CELL DIAMETER *(Maximum)* 11.2 in. (286 mm)
SEMI-FIELD ANGLE 15°	OVERALL LENGTH 15.35 in. 390 mm)
RELATIVE APERTURE f/1.5	WEIGHT 76 lbs.

REMARKS:

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/1.5	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5												

FILM Aerographic 5424 TARGET CONTRAST 1000:1 FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR 32 L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR ____ L/mm

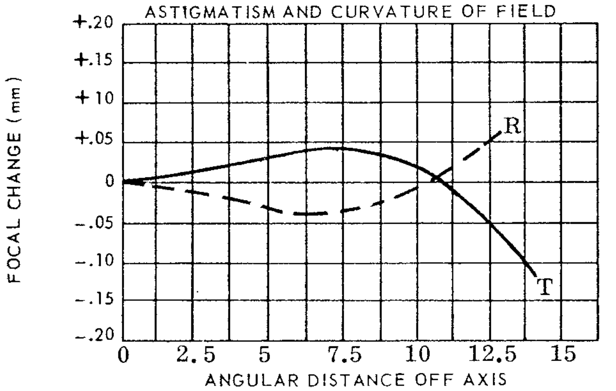
FILM ____ TARGET CONTRAST ____ FILTER ____

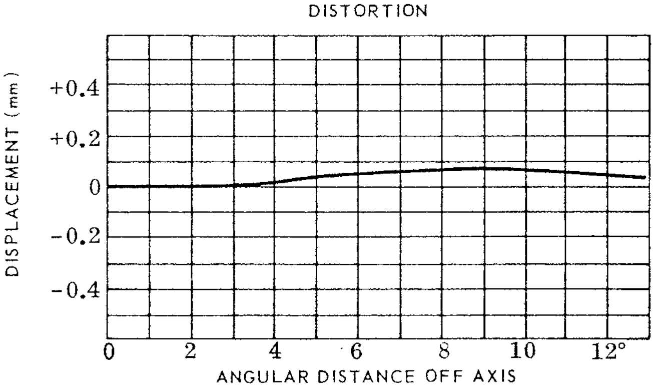
RADIAL																		
TANGENTIAL																		

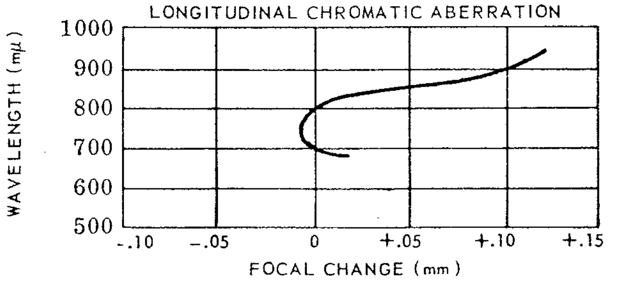
AWAR ____ L/mm

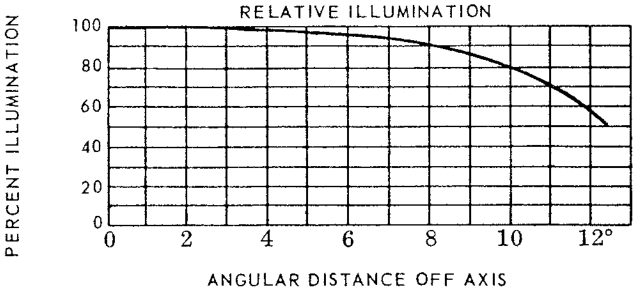
VISUAL ____ TARGET CONTRAST ____ FILTER ____

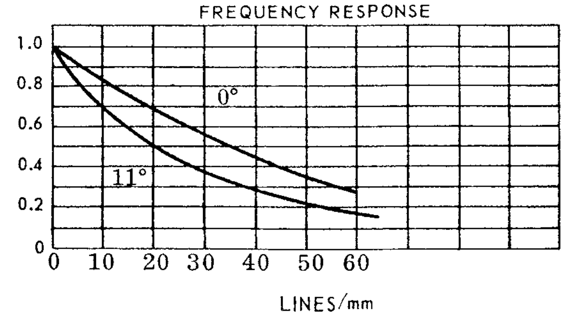
RADIAL																		
TANGENTIAL																		

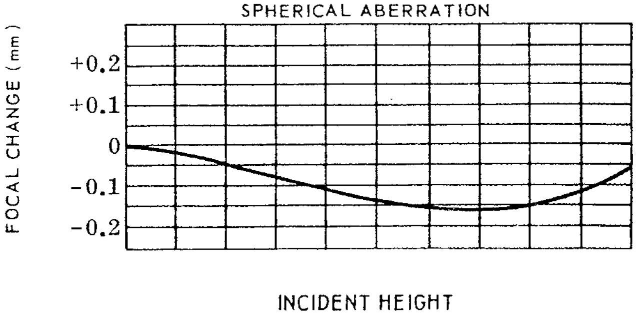

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

LENS DATA INFORMATION SHEET

(Reference MIL-STD-150A for definition of terms and methods of measurement)

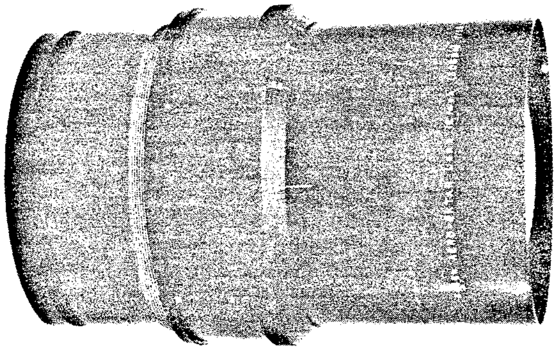
DATE: 15 Sept. 1967

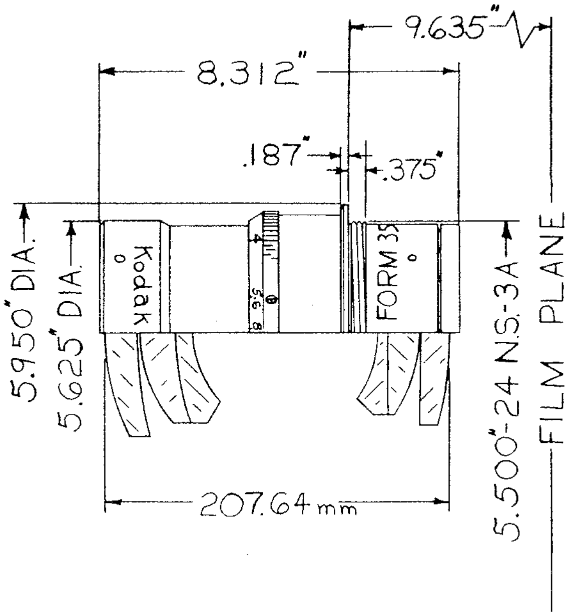
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Kodak Aero-Ektar

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/3.5	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Eastman Kodak Co.

STOCK NO. Eastman Kodak P/N SK-10214-1A	SPECIFICATION NO.	STATUS Special Order

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (310.64 mm)	TRANSMITTANCE 70% Minimum
BACK FOCAL DISTANCE 7.84 in. (189.28 mm)	COLOR CORRECTION 4860-6560Å
FRONT VERTEX BACK FOCAL DISTANCE 15.6 in. (396.90 mm)	DISTORTION *(Maximum)* -.54 mm at 14.7°
FLANGE FOCAL DISTANCE 9.63 in. (244.73 mm)	LENS CELL DIAMETER *(Maximum)* 5.95 in. (151.13 mm)
SEMI-FIELD ANGLE 14° 42'	OVERALL LENGTH 8.3 in. (211.12 mm)
RELATIVE APERTURE f/3.5	WEIGHT 14.8 lbs

REMARKS:

Used on the following aircraft cameras: KA-53A, CA-101, Model 500

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/3.5	4.5 in. x 4.5 in.	Eastman Kodak Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	14.7												

FILM Plus X Aerecon TARGET CONTRAST High FILTER W-12

AVERAGE RADIAL AND TANGENTIAL	64	57	57	50	44	34												

AWAR 51 L/mm

FILM Microfile No. 7454 TARGET CONTRAST High FILTER W-12

AVERAGE RADIAL AND TANGENTIAL	162	128	102	80	45	54												

AWAR ____ L/mm

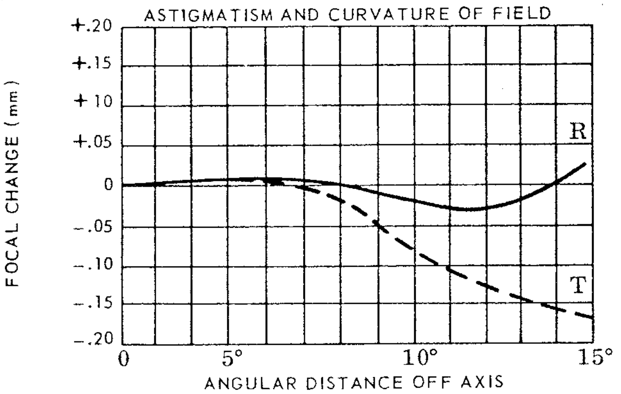
FILM ____ TARGET CONTRAST ____ FILTER ____

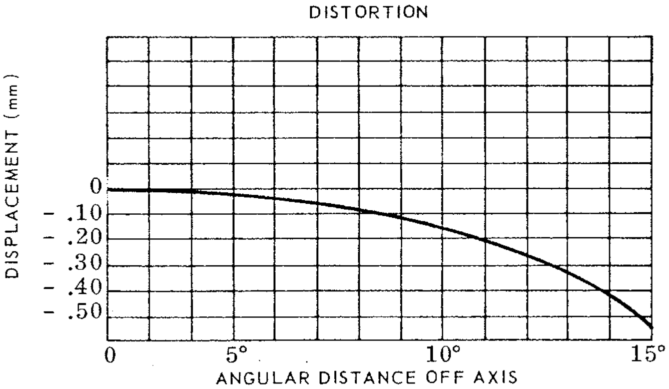
AVERAGE RADIAL AND TANGENTIAL																		

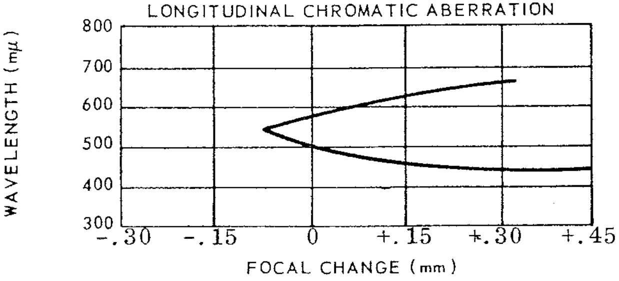
AWAR ____ L/mm

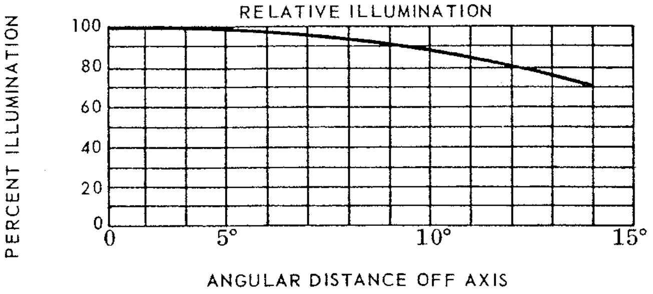
VISUAL ____ TARGET CONTRAST ____ FILTER ____

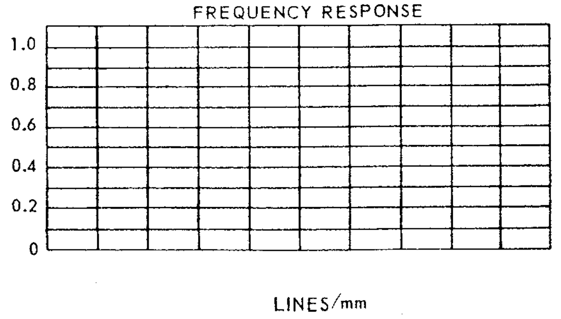
RADIAL																		
TANGENTIAL																		

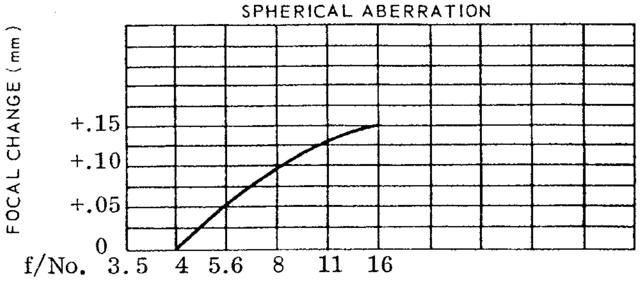








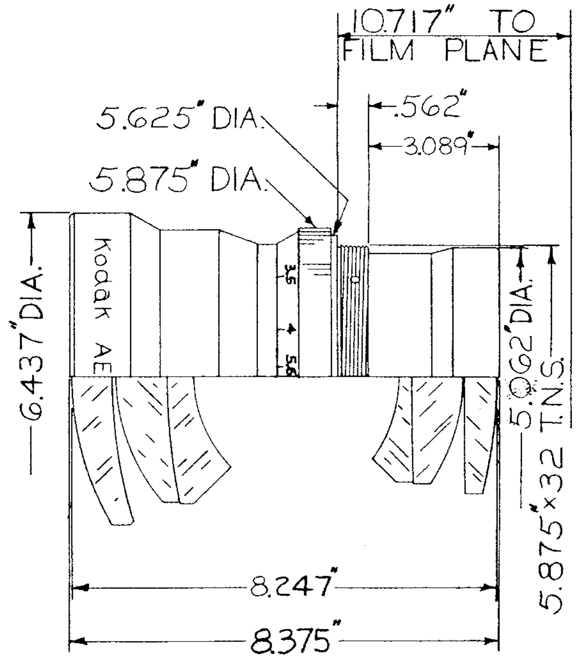




LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Kodak Aero-Ektar, Infrared	
FOCAL LENGTH 12 in.	RELATIVE APERTURE f/3.5	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Eastman Kodak Co.
STOCK NO. Eastman Kodak P/N SK-9929-1	SPECIFICATION NO.	STATUS Special Order	

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (305.53 mm)	TRANSMITTANCE 75% at 9000Å
BACK FOCAL DISTANCE 7.54 in. (191.50 mm)	COLOR CORRECTION 6560-9000Å
FRONT VERTEX BACK FOCAL DISTANCE 15.78 in. (400.97 mm)	DISTORTION *(Maximum)* -1.03 mm at 15°
FLANGE FOCAL DISTANCE 10.72 in. (272.20 mm)	LENS CELL DIAMETER *(Maximum)* 6.44 in. (163.58 mm)
SEMI-FIELD ANGLE 15°	OVERALL LENGTH 8.38 in. (212.73 mm)
RELATIVE APERTURE f/3.5	WEIGHT 14 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/3.5	4.5 in. x 4.5 in.	Eastman Kodak Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0		5		10		15											

f/3.5 FILM High Speed Infrared 5218 TARGET CONTRAST High FILTER W-25

AVERAGE RADIAL AND TANGENTIAL	40		36		31		20											

AWAR ______ L/mm

f/8.0 FILM High Speed Infrared 5218 TARGET CONTRAST High FILTER W-25

AVERAGE RADIAL AND TANGENTIAL	40		40		35		30											

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

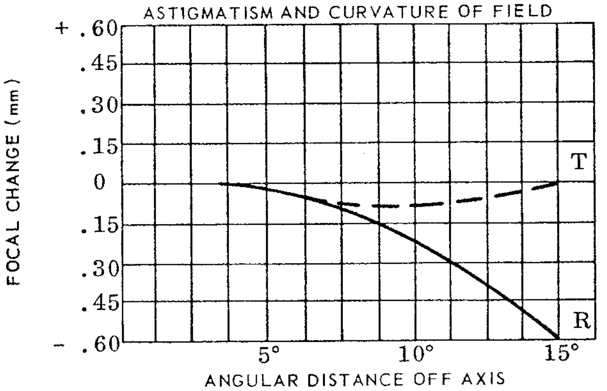
AVERAGE RADIAL AND TANGENTIAL																		

AWAR ______ L/mm

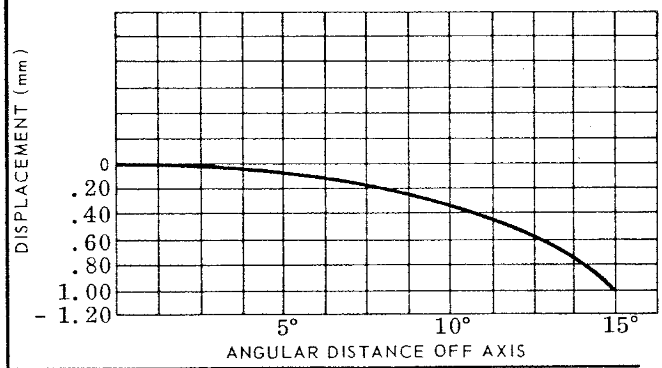
VISUAL ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

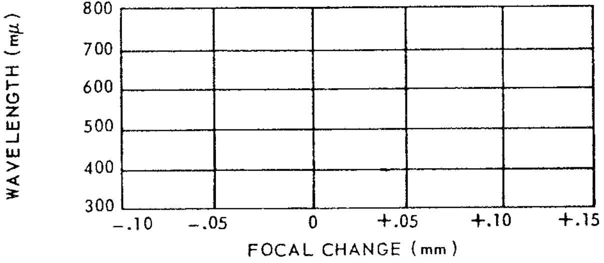
ASTIGMATISM AND CURVATURE OF FIELD



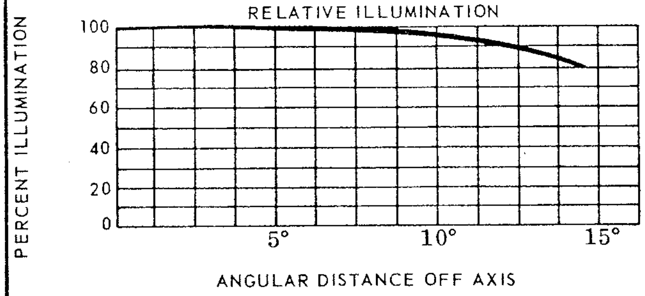
DISTORTION



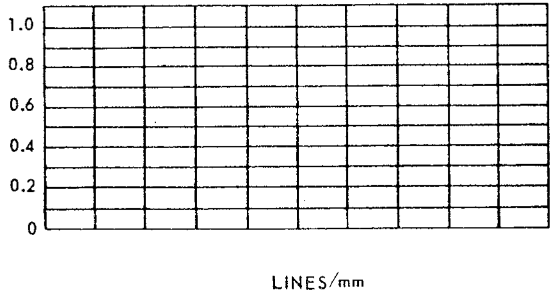
LONGITUDINAL CHROMATIC ABERRATION



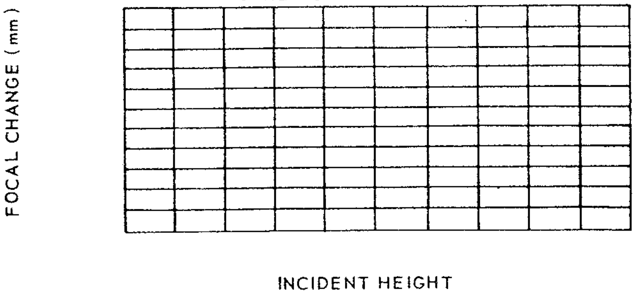
RELATIVE ILLUMINATION



FREQUENCY RESPONSE



SPHERICAL ABERRATION



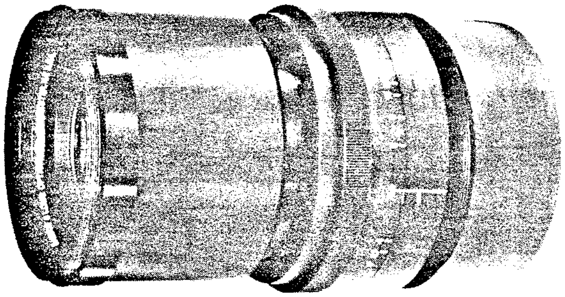
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

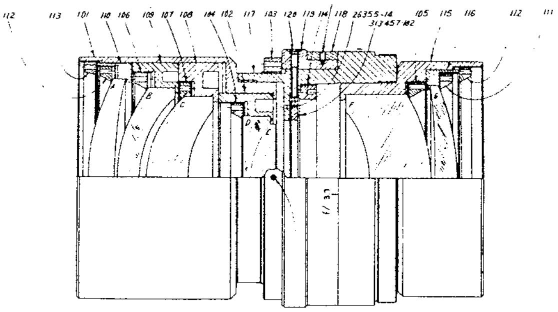
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/3.7	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Bausch & Lomb, Inc.

STOCK NO.	SPECIFICATION NO.	STATUS Development

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (303.52 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 6.9 in. (175.46 mm)	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 14.3 in. (362.66 mm)	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 15°	OVERALL LENGTH
RELATIVE APERTURE f/3.7	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/3.7	4.5 in. x 4.5 in.	Bausch & Lomb, Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15														

FILM Kodak 135-IR TARGET CONTRAST ______ FILTER ______

RADIAL	39	37	36	24														
TANGENTIAL	31	39	24	21														

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

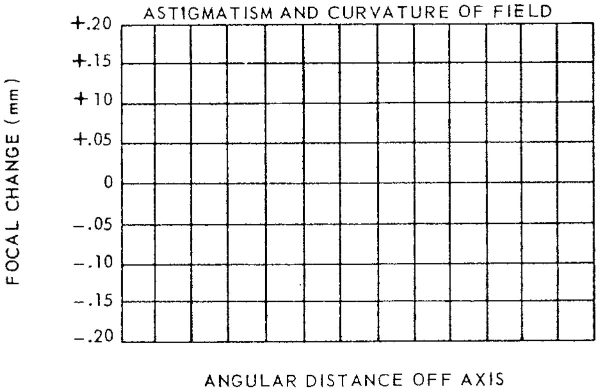
FILM ______ TARGET CONTRAST ______ FILTER ______

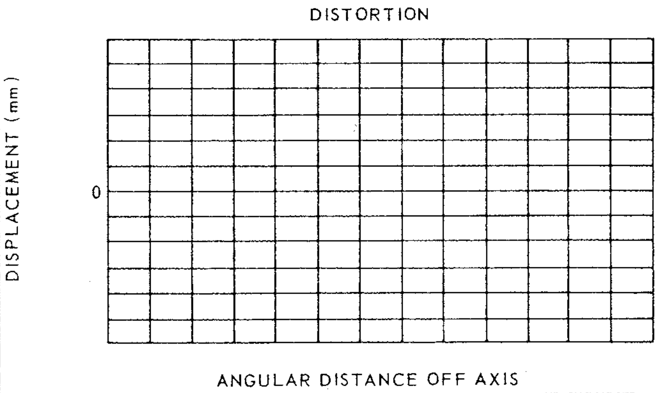
RADIAL																		
TANGENTIAL																		

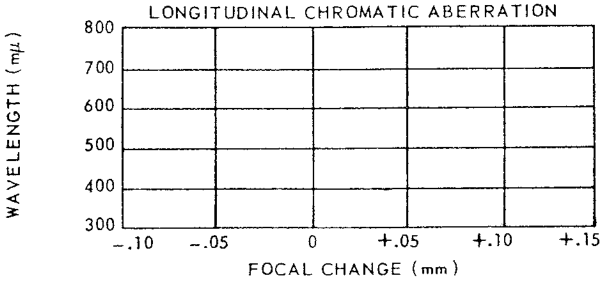
AWAR ______ L/mm

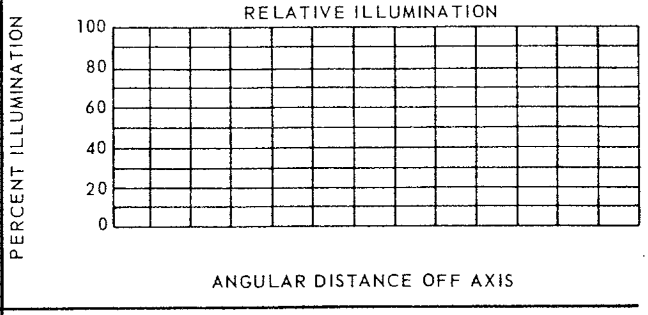
VISUAL ______ TARGET CONTRAST ______ FILTER ______

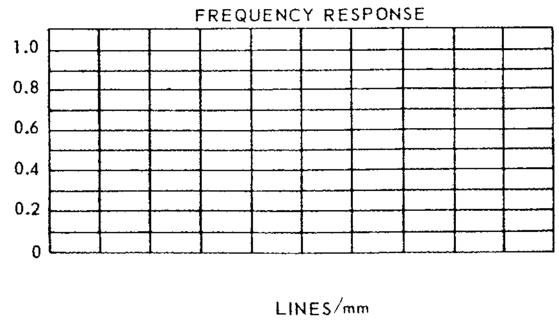
RADIAL																		
TANGENTIAL																		

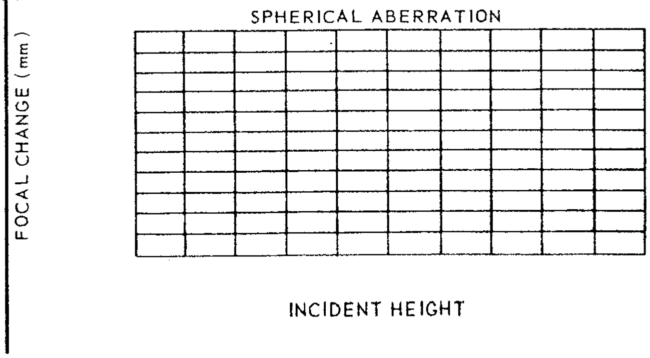












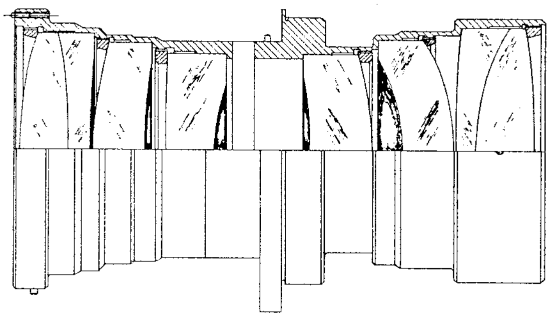
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/3.8	FORMAT 4.5 in. Pan (.765 in. wide 4.71 in. long)	MANUFACTURER Fairchild Space & Defense Systems, El Segundo

STOCK NO. Fairchild P/N 131-101	SPECIFICATION NO.	STATUS Production

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in.	TRANSMITTANCE
BACK FOCAL DISTANCE 7.7215 ± .05 in.	COLOR CORRECTION Wratten 21
FRONT VERTEX BACK FOCAL DISTANCE 16.3838 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 12.0 ± .060 in.	LENS CELL DIAMETER *(Maximum)* 5.56 in.
SEMI-FIELD ANGLE 10°	OVERALL LENGTH 8.942 in.
RELATIVE APERTURE f/3.8	WEIGHT 19.2 lb

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/3.8	4.5 in. Pan (.765 in. wide 4.71 in. long)	Fairchild Space & Defense Systems, El Segundo

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10													

FILM 3400 TARGET CONTRAST 1000:1 FILTER W-21

RADIAL	102	109	107	95	125													
TANGENTIAL	113	128	126	125	99													

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

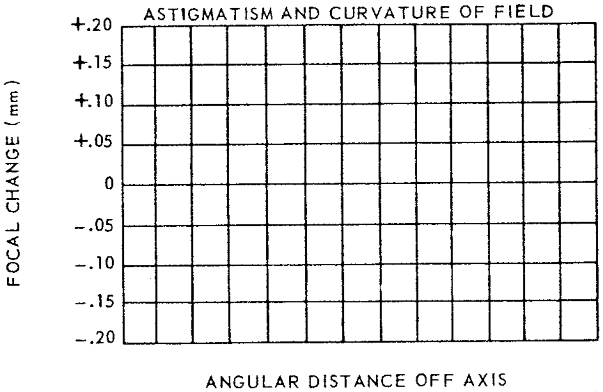
FILM ______ TARGET CONTRAST ______ FILTER ______

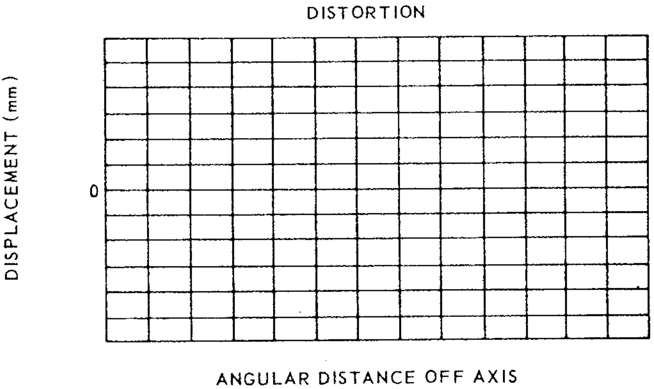
RADIAL																		
TANGENTIAL																		

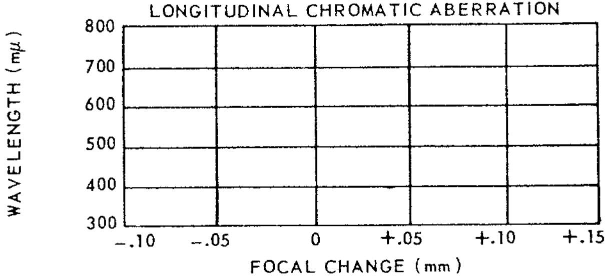
AWAR ______ L/mm

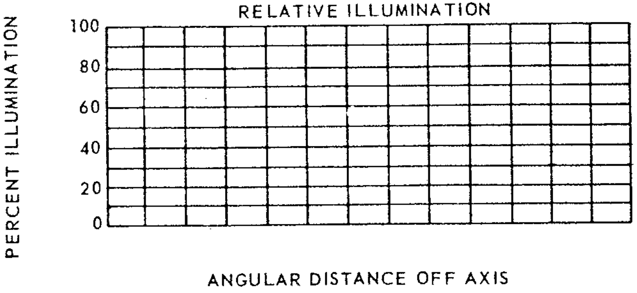
VISUAL ______ TARGET CONTRAST ______ FILTER ______

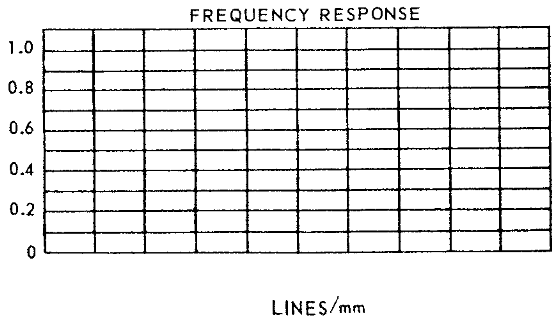
RADIAL																		
TANGENTIAL																		

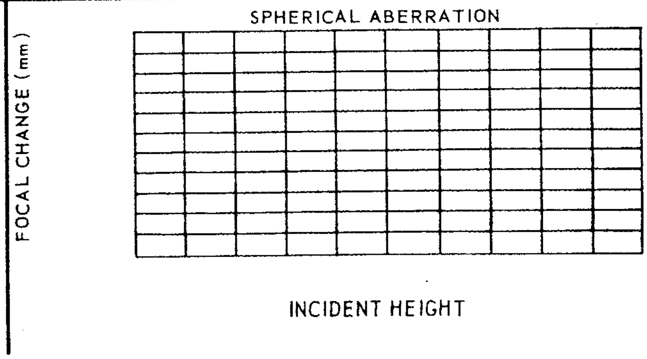












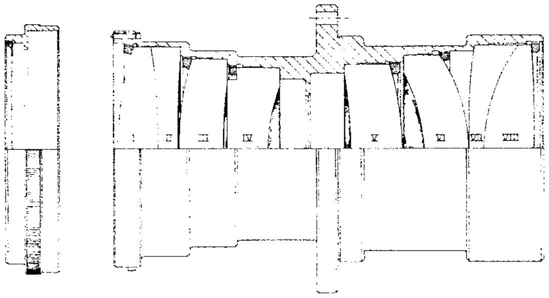
LENS DATA INFORMATION SHEET

(Reference MIL–STD–150A for definition of terms and methods of measurement)

DATE: 15 Sept. 1967

TYPE (MIL–STD–150A)	Type I Aerial Reconnaissance
NAME	
FOCAL LENGTH	12 in.
RELATIVE APERTURE	f/3.8
FORMAT	4.5 in. x .5 in. slit
MANUFACTURER	Fairchild Space & Defense Systems, El Segundo
STOCK NO.	Fairchild P/N 117-100
SPECIFICATION NO.	
STATUS	Production

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH	12 in. (304.8 mm)	TRANSMITTANCE	
BACK FOCAL DISTANCE	8.06 ± .05 in.	COLOR CORRECTION	
FRONT VERTEX BACK FOCAL DISTANCE	16.400 in.	DISTORTION *(Maximum)*	
FLANGE FOCAL DISTANCE	11.99 ± .05 in.	LENS CELL DIAMETER *(Maximum)*	5.820 in.
SEMI–FIELD ANGLE	10°	OVERALL LENGTH	8.621 in.
RELATIVE APERTURE	f/3.8	WEIGHT	20 lb

REMARKS:

Used on the following aircraft cameras: KA-59A

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/3.8	4.5 in. x .5 in. slit	Fairchild Space & Defense Systems, El Segundo

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10													

FILM Plus X Aerecon TARGET CONTRAST 1000:1 FILTER W-12

RADIAL	102	102	90	90	83													
TANGENTIAL	102	91	71	76	76													

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

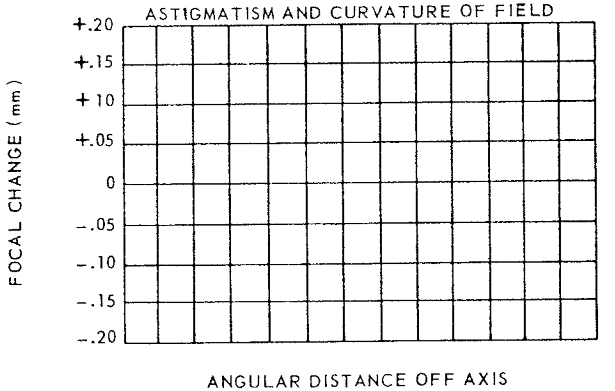
FILM ______ TARGET CONTRAST ______ FILTER ______

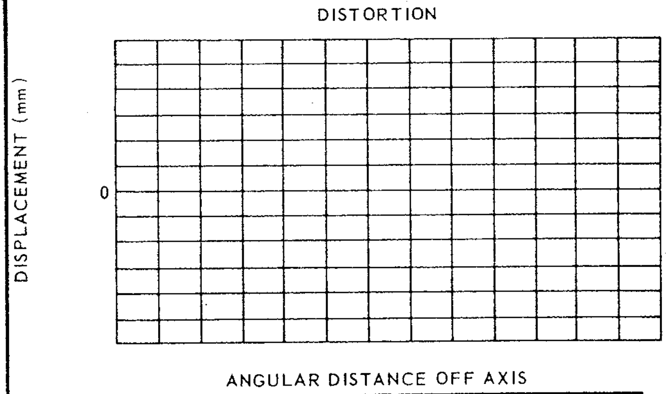
RADIAL																		
TANGENTIAL																		

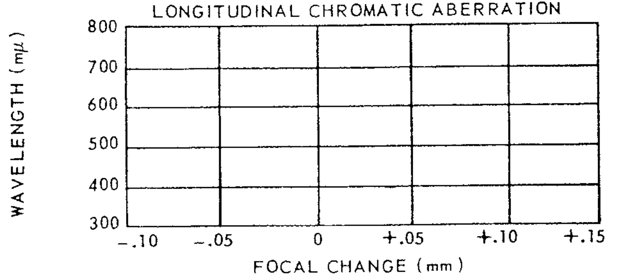
AWAR ______ L/mm

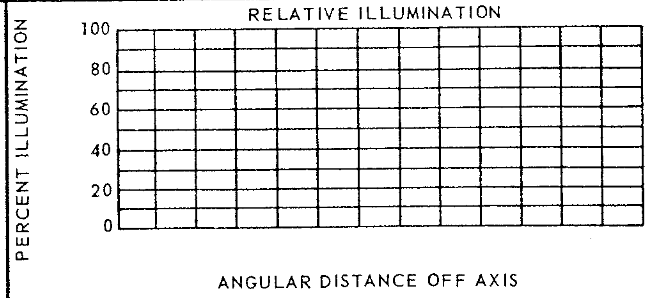
VISUAL ______ TARGET CONTRAST ______ FILTER ______

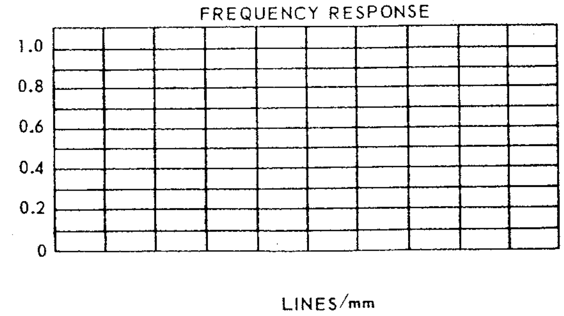
RADIAL																		
TANGENTIAL																		

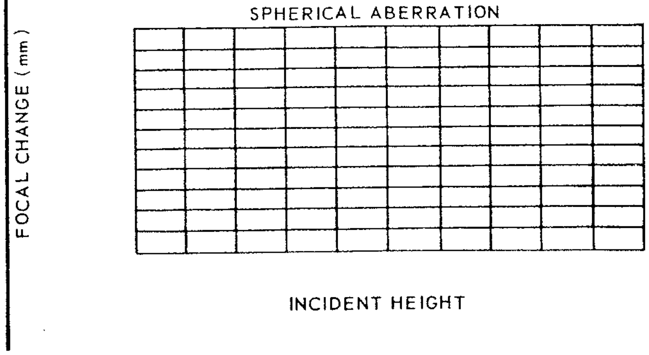

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE

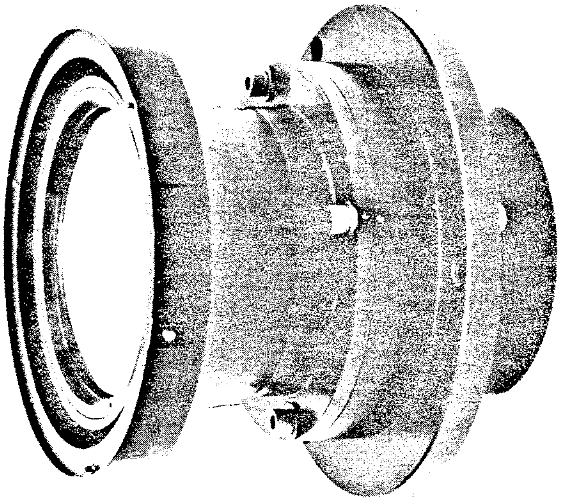

SPHERICAL ABERRATION

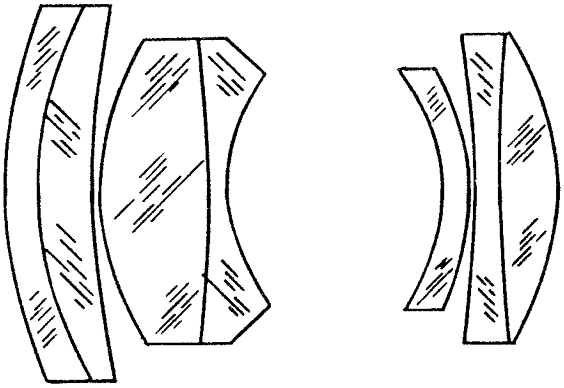
LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Deltamar	
FOCAL LENGTH 12 in.	RELATIVE APERTURE f/4.0	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Aerojet Delft Corp.

STOCK NO. Aerojet Delft P/N 17AG	SPECIFICATION NO.	STATUS Production

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (301.9 mm)	TRANSMITTANCE 87%
BACK FOCAL DISTANCE 8.14 in.	COLOR CORRECTION 4900-7000Å
FRONT VERTEX BACK FOCAL DISTANCE 14.26 in.	DISTORTION *(Maximum)* .06%
FLANGE FOCAL DISTANCE 9.67 in.	LENS CELL DIAMETER *(Maximum)* 6.34 in.
SEMI-FIELD ANGLE 15°	OVERALL LENGTH 14.69 in.
RELATIVE APERTURE f/4.0	WEIGHT 10.3 lbs

REMARKS:

Used on the following aircraft cameras: KS-72

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/4.0	4.5 in. x 4.5 in.	Aerojet Delft Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5												

FILM Plus X Aerecon TARGET CONTRAST High FILTER W-12

RADIAL	80	67	67	70	74	73												
TANGENTIAL	63	80	67	66	69	68												

AWAR 70 L/mm

FILM ________ TARGET CONTRAST ________ FILTER ________

RADIAL																		
TANGENTIAL																		

AWAR ________ L/mm

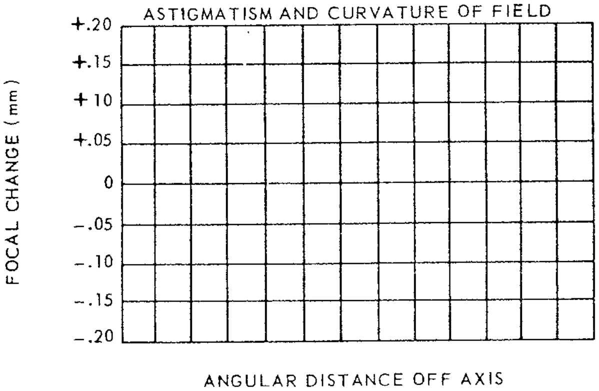
FILM ________ TARGET CONTRAST ________ FILTER ________

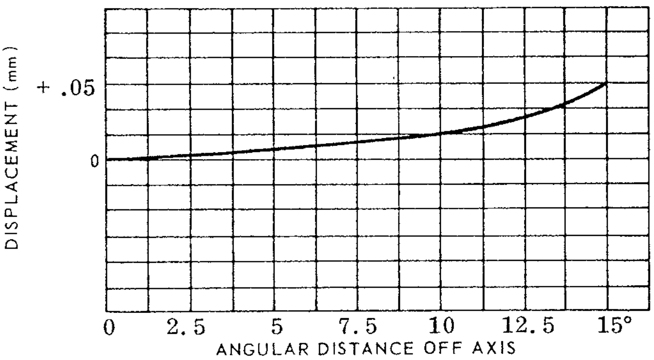
RADIAL																		
TANGENTIAL																		

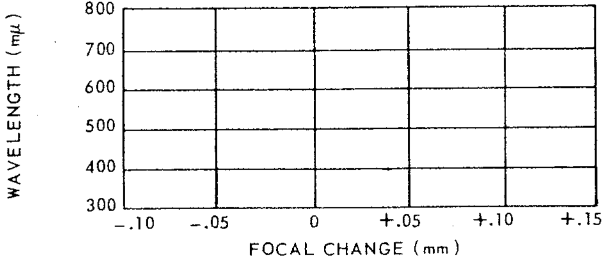
AWAR ________ L/mm

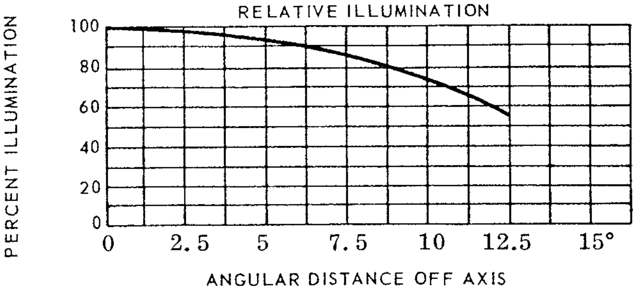
VISUAL ________ TARGET CONTRAST ________ FILTER ________

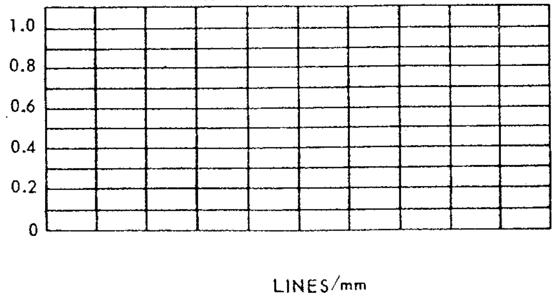
RADIAL																		
TANGENTIAL																		

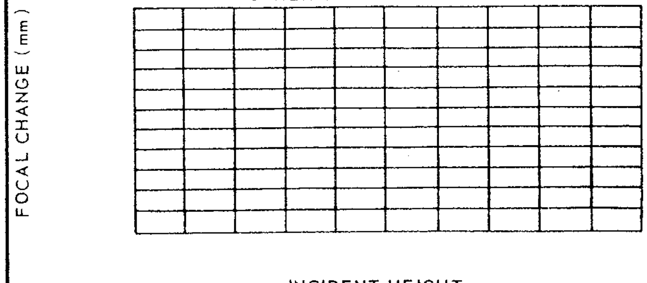

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

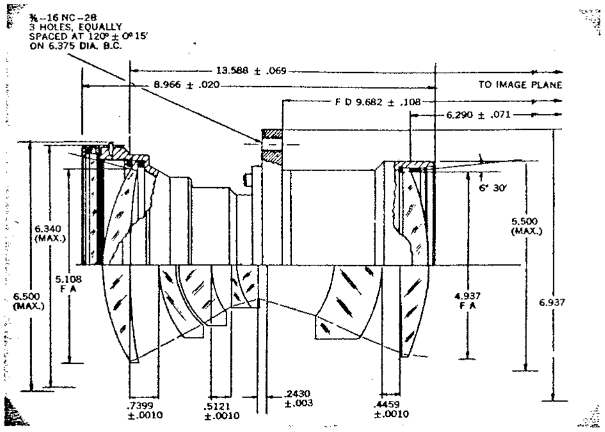
LENS DATA INFORMATION SHEET *(Reference MIL—STD—150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/4.0	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Bell and Howell Co.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (304 mm)	TRANSMITTANCE 75%
BACK FOCAL DISTANCE 13.854 in.	COLOR CORRECTION 5000-7000 Å
FRONT VERTEX BACK FOCAL DISTANCE 14.847 in.	DISTORTION *(Maximum)* 1.0 mm
FLANGE FOCAL DISTANCE 9.682 in.	LENS CELL DIAMETER *(Maximum)* 6.5 in.
SEMI-FIELD ANGLE 10.5°	OVERALL LENGTH
RELATIVE APERTURE f/4.0	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/4.0	4.5 in. x 4.5 in.	Bell and Howell Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)

FILM Aerecon Plus X TARGET CONTRAST High FILTER W-12

RADIAL

TANGENTIAL

AWAR 65 L/mm

FILM TARGET CONTRAST FILTER

RADIAL

TANGENTIAL

AWAR L/mm

FILM TARGET CONTRAST FILTER

RADIAL

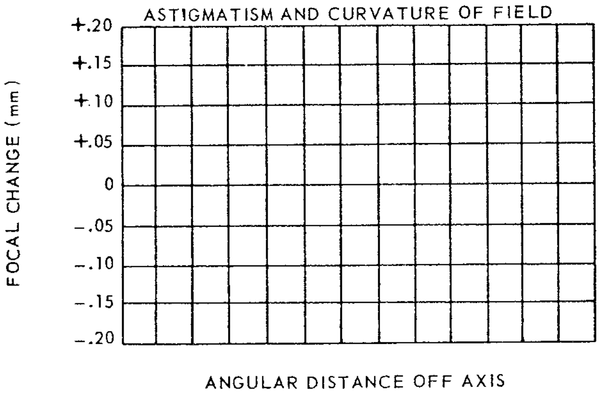
TANGENTIAL

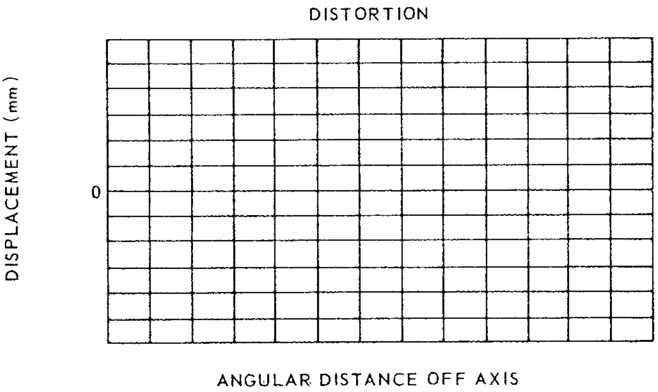
AWAR L/mm

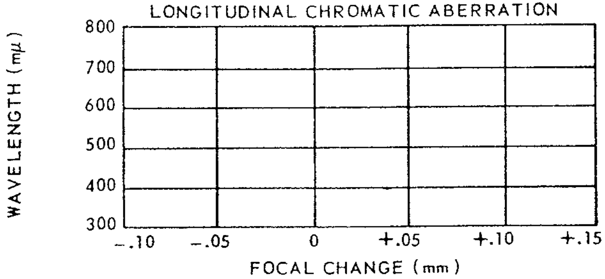
VISUAL TARGET CONTRAST FILTER

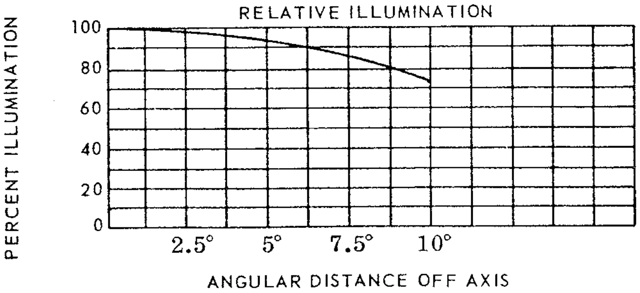
RADIAL

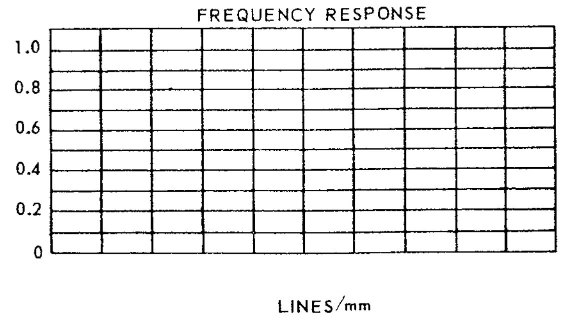
TANGENTIAL

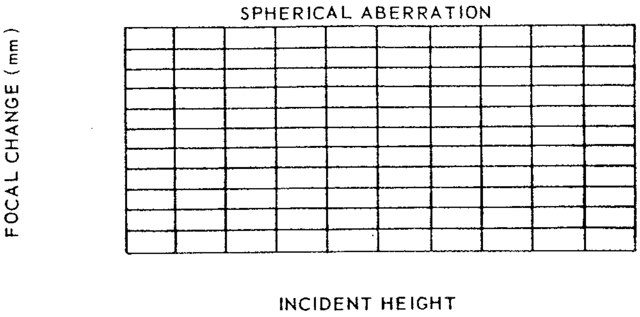












LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/4.0	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Fairchild Space & Defense Systems, El Segundo

STOCK NO.	SPECIFICATION NO.	STATUS Production

GENERAL DESCRIPTION

CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (304.2 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE	COLOR CORRECTION Wratten 12
FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION *(Maximum)* 0.228 mm (Computer)
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE	OVERALL LENGTH
RELATIVE APERTURE f/4.0	WEIGHT 14.14 lb

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/4.0	4.5 in. x 4.5 in.	Fairchild Space & Defense Systems, El Segundo

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0		2.5		5		7.5		10									

FILM 3400 TARGET CONTRAST 1000:1 FILTER W-12

RADIAL	141		121		112		113		100									
TANGENTIAL	141		121		106		100		89									

AWAR 112 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

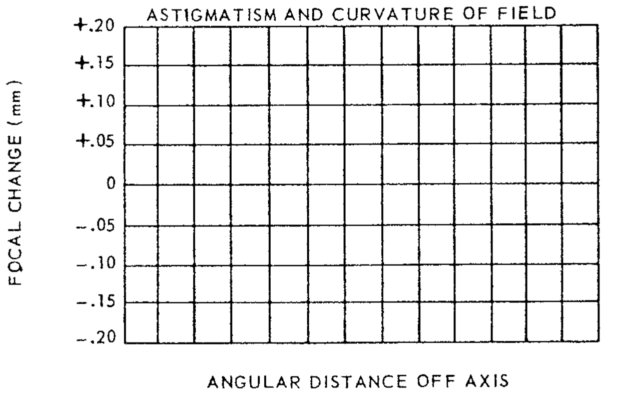
FILM ______ TARGET CONTRAST ______ FILTER ______

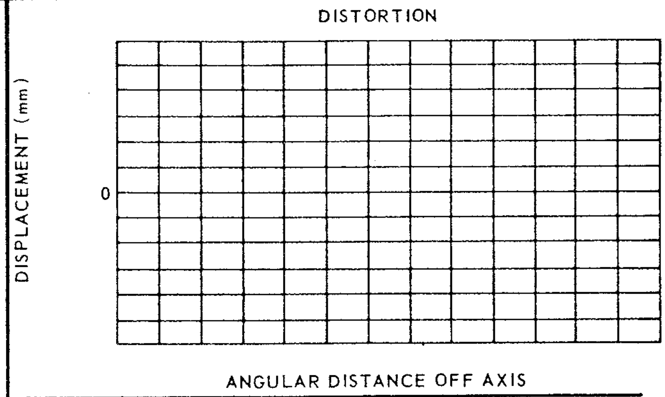
RADIAL																		
TANGENTIAL																		

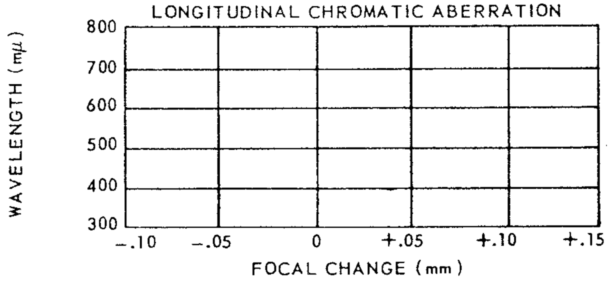
AWAR ______ L/mm

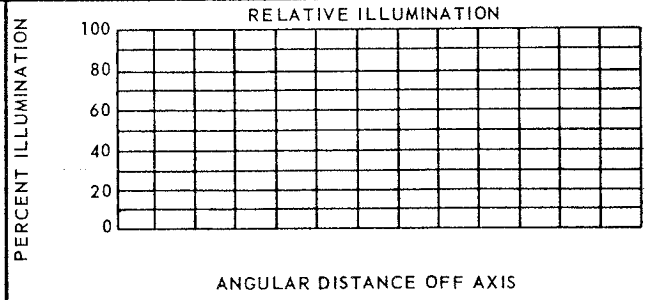
VISUAL ______ TARGET CONTRAST ______ FILTER ______

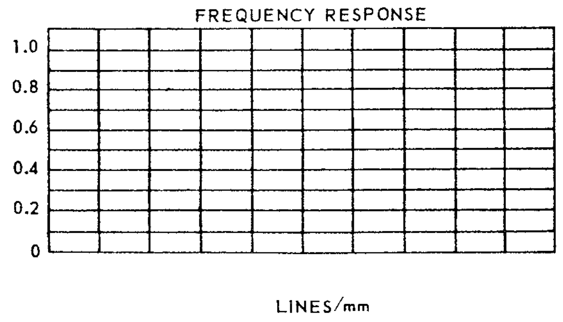
RADIAL																		
TANGENTIAL																		

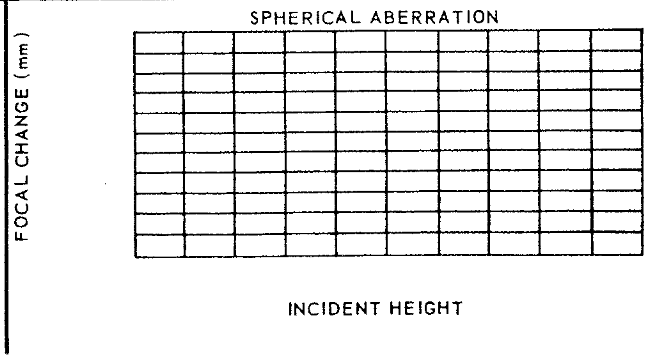












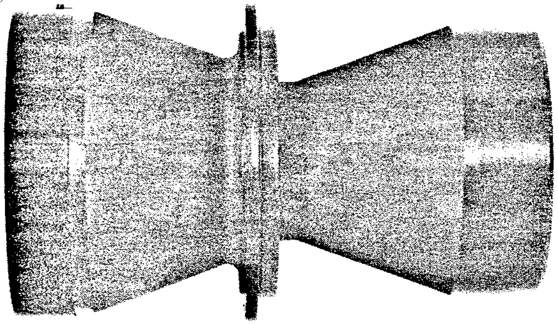
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

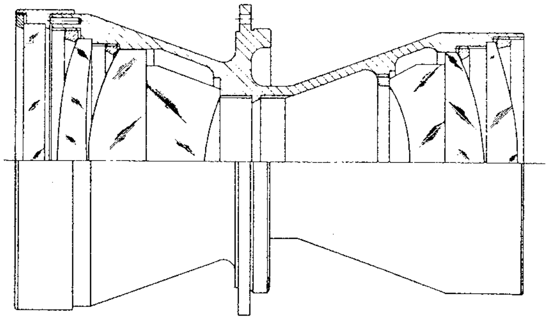
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME RECON 651

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/4.0	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS Current

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (304.8 mm)	TRANSMITTANCE 85%
BACK FOCAL DISTANCE 6.23 in. (158.4 mm)	COLOR CORRECTION 5461-6563 Å (minus blue)
FRONT VERTEX BACK FOCAL DISTANCE 13.6 in. (346.0 mm)	DISTORTION *(Maximum)* 100 Microns
FLANGE FOCAL DISTANCE 10.5 in. (267 mm)	LENS CELL DIAMETER *(Maximum)* 4.76 in. (121 mm)
SEMI-FIELD ANGLE 15°	OVERALL LENGTH 8.34 in. (212 mm)
RELATIVE APERTURE f/4.0	WEIGHT 6.9 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/4.0	4.5 in. x 4.5 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5												

FILM Plus X 8401 TARGET CONTRAST 1000:1 FILTER W 12

AWAR 75 L/mm

RADIAL	80	76	76	80	76	66												
TANGENTIAL	80	76	80	66	70	62												

FILM Pan X 3400 TARGET CONTRAST 1000:1 FILTER W 12

AWAR 102 L/mm

RADIAL	107	107	107	119	94	83												
TANGENTIAL	107	107	106	105	83	73												

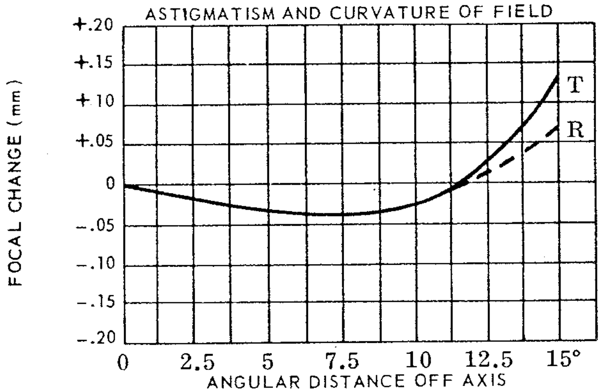
FILM ______ TARGET CONTRAST ______ FILTER ______

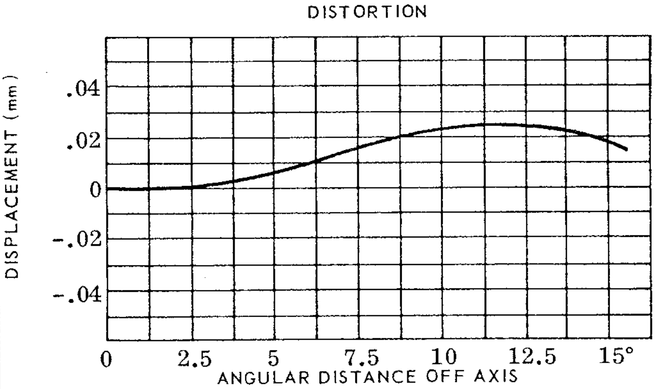
AWAR ______ L/mm

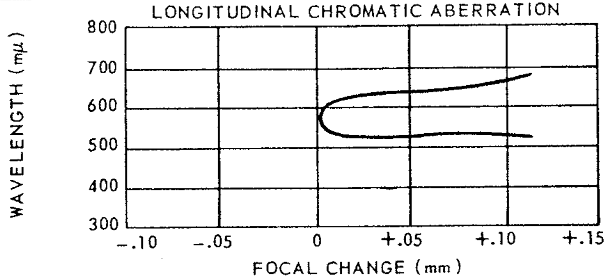
RADIAL																		
TANGENTIAL																		

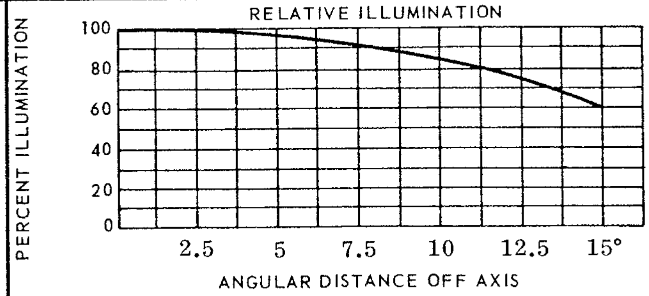
VISUAL ______ TARGET CONTRAST ______ FILTER ______

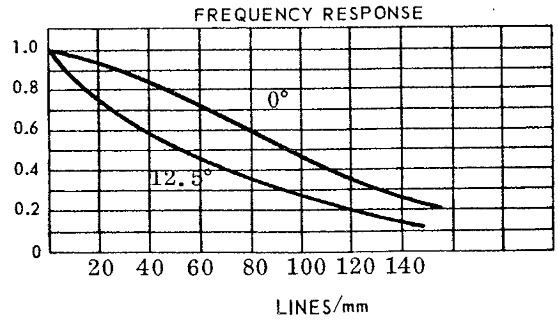
RADIAL																		
TANGENTIAL																		

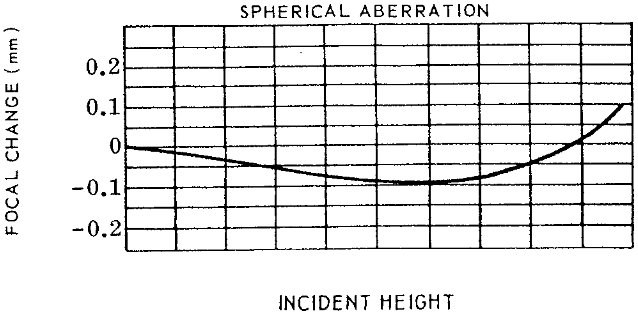

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

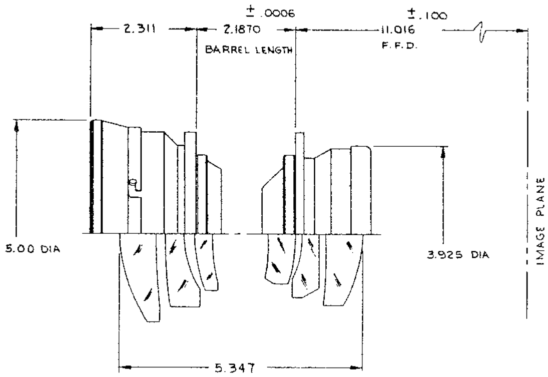
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Paxar

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/5.3	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Pacific Optical Corp.

STOCK NO. Pacific Optical P/N 34340	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (304.8 mm)	TRANSMITTANCE 85%
BACK FOCAL DISTANCE 9.504 in.	COLOR CORRECTION 5461-6563 Å
FRONT VERTEX BACK FOCAL DISTANCE 14.851 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 11.016 in.	LENS CELL DIAMETER *(Maximum)* 3.925 in.
SEMI-FIELD ANGLE 12.5°	OVERALL LENGTH 6.2 in.
RELATIVE APERTURE f/5.3	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/5.3	4.5 in. x 4.5 in.	Pacific Optical Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5												

FILM Plus X TARGET CONTRAST High FILTER W-12

AVERAGE RADIAL AND TANGENTIAL	50	45	44	39	43	38												

AWAR 45 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

AVERAGE RADIAL AND TANGENTIAL																		

AWAR ______ L/mm

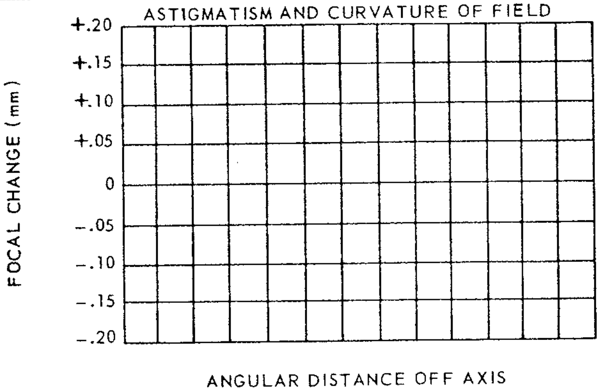
FILM ______ TARGET CONTRAST ______ FILTER ______

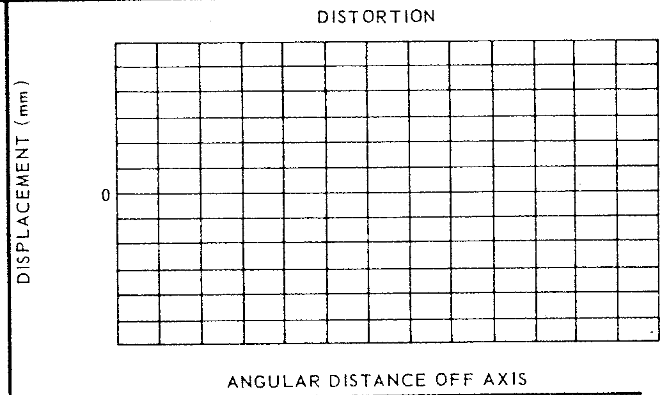
AVERAGE RADIAL AND TANGENTIAL																		

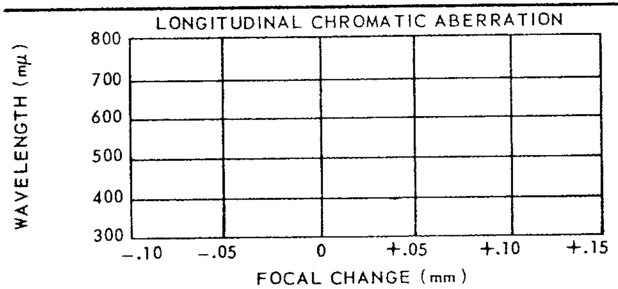
AWAR ______ L/mm

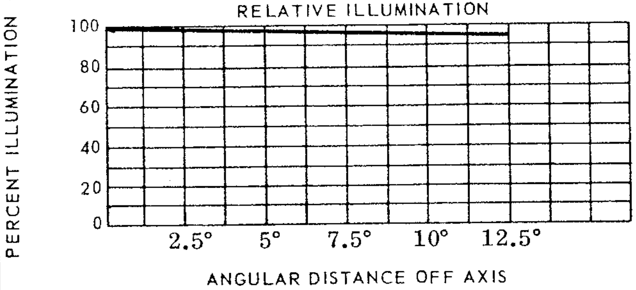
VISUAL ______ TARGET CONTRAST ______ FILTER ______

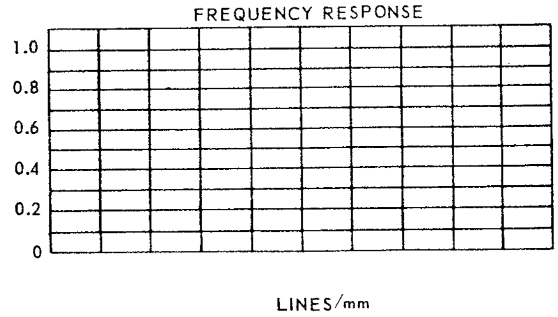
RADIAL																		
TANGENTIAL																		

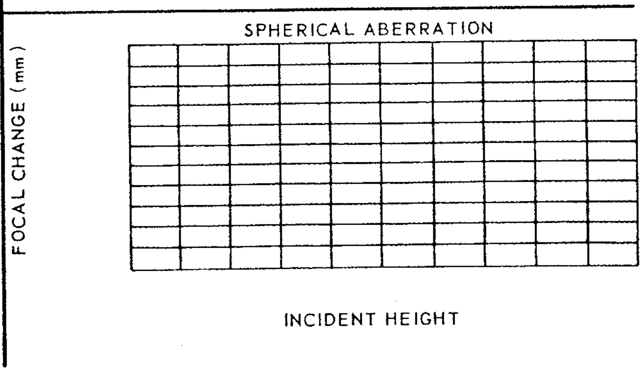

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/5.6	FORMAT 4.5 in. Pan	MANUFACTURER Bell & Howell Co.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION

CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (304.8 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 10.188 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 12.122 in.	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 15°	OVERALL LENGTH
RELATIVE APERTURE f/5.6	WEIGHT

REMARKS:

Used on the following aircraft cameras: KA-55A

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/5.6	4.5 in. Pan	Bell & Howell Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5	15											

FILM Plus X TARGET CONTRAST High FILTER

RADIAL	56	64	60	60	60	56	31											
TANGENTIAL	50	60	56	79	60	53	50											

AWAR 60 L/mm

FILM Plus X TARGET CONTRAST Med FILTER

RADIAL	44	47	50	53	47	45	25											
TANGENTIAL	50	50	56	53	50	53	34											

AWAR 50 L/mm

FILM Plus X TARGET CONTRAST Low FILTER

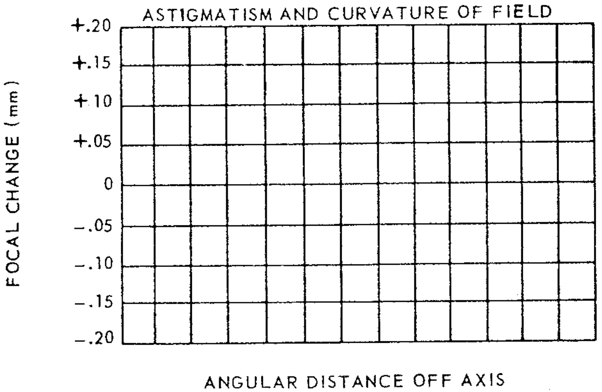
RADIAL	31	33	31	35	27	28	21											
TANGENTIAL	40	33	35	35	30	31	22											

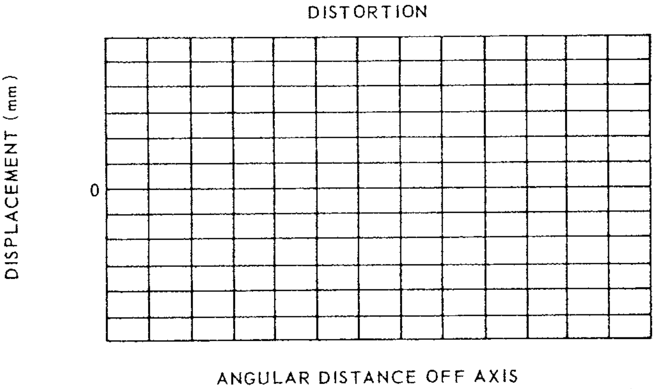
AWAR 33 L/mm

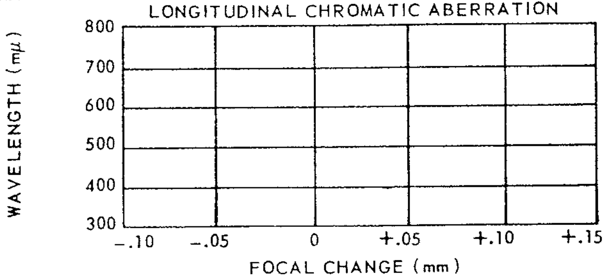
FILM SO 136 TARGET CONTRAST High FILTER

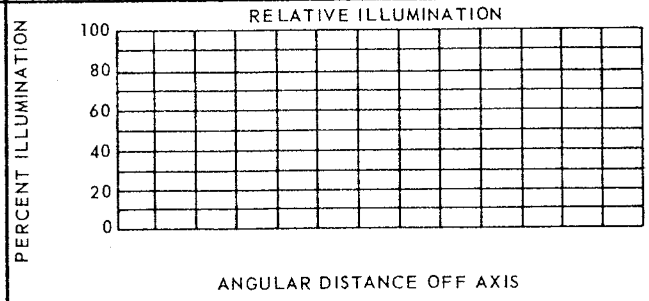
RADIAL	79	75	67	79	76	76	62											
TANGENTIAL	79	79	76	89	79	84	62											

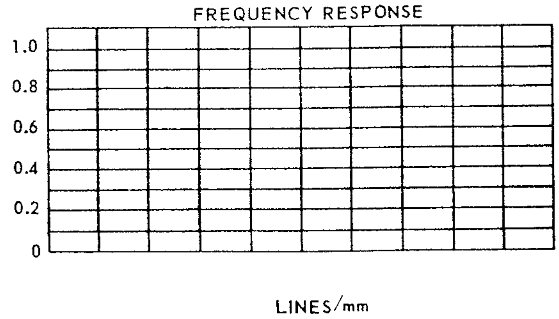
AWAR 75 L/mm

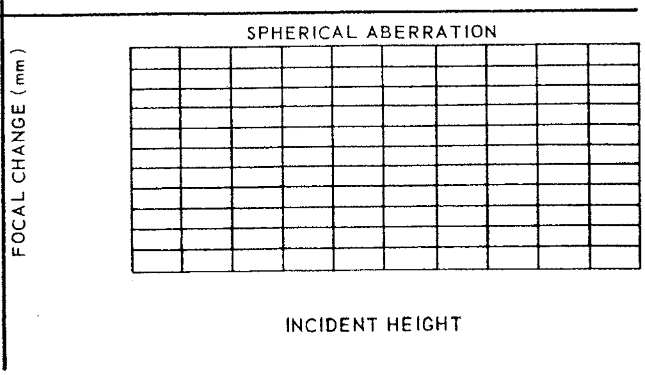












LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 12 in.	RELATIVE APERTURE f/5.6	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION

CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (304.8 mm)	TRANSMITTANCE 90%
BACK FOCAL DISTANCE	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 15°	OVERALL LENGTH
RELATIVE APERTURE f/5.6	WEIGHT

REMARKS:

Used on the following aircraft cameras: KA-9A, HR-235, KA-55A